

Supplementary File 1: Notice of Compliance with conditions for new drugs and new indications for existing drugs														
Generic name	Brand name	Indication	ATC 2nd level	Date NOC/c	Date NOC/c fulfilled	Date NOC/c withdrawal	Time to NOC/c fulfillment (days)	Time to NOC/c withdrawal (days)	Reason for NOC/c withdrawal	New drug (ND) or new indication (NI)	Biologic (B) or small molecule (SM)	Significant therapeutic advance (STA)/moderate therapeutic advance (MTA)/minimal, no therapeutic advance (NTA)	Date New Drug Submission filed	Time in approval process (days)
delavirdine	Rescriptor	HIV	antivirals for systemic use	7/22/1998	7/22/2003		1826			ND	SM	NTA		
nevirapine	Viramune	HIV	antivirals for systemic use	9/4/1998	9/13/2004		2201			ND	SM	NTA		
recombinant factor VIIa	Niastase	clotting disorder	antihemorrhagics	2/12/1999	5/19/2006		2653			ND	B	NTA		
alteplase	Activase	stroke	antithrombotic agents	2/16/1999	1/26/2005		2171			NI	B			
abacavir	Ziagen	HIV	antivirals for systemic use	6/4/1999	9/10/2001		829			ND	SM	NTA		
zanamivir	Relenza	influenza	antivirals for systemic use	11/2/1999	8/26/2003		1393			ND	SM	NTA		
delavirdine	Rescriptor	HIV	antivirals for systemic use	4/25/2000	7/22/2003		1183			NI	SM	NTA		
riluzole	Rilutek	amyotrophic lateral sclerosis	other nervous system drugs	8/30/2000	11/29/2007		2647			ND	SM	STA		
amprenavir	Agenerase	HIV	antivirals for systemic use	3/1/2001	7/5/2004		1222			ND	SM	NTA		
imatinib	Gleevec	gastrointestinal stromal	antineoplastic agents	9/20/2001	12/29/2004		1196			ND	SM	STA		

		tumor												
amprenavi r	Agenerase	HIV	antivirals for systemic use	11/21/200 1	7/5/2004		957			NI	SM	NTA		
celecoxib	Celebrex	prevention of familial adenomat ous polyposis	antineopla stic agents	5/28/2002		12/17/200 4		934	Increase in cardiovasc ular risk	NI	SM	NTA		
imatinib	Gleevec	chronic myelogeno us leukemia - blast crisis	antineopla stic agents	8/7/2002	5/31/2018		5776			NI	SM	STA		
bicalutami de	Casodex	prostate cancer	endocrine therapy	11/25/200 2		8/18/2003		266	Increase in mortality	NI	SM	NTA		
tenofovir	Viread	HIV	antivirals for systemic use	3/18/2003	7/20/2005		855			ND	SM	NTA		
imatinib	Gleevec	newly diagnosed chronic myeloid leukemia	antineopla stic agents	10/8/2003	6/17/2010		2444			NI	SM	STA		
gefitinib	Iressa	lung cancer	antineopla stic agents	12/17/200 3	12/18/200 9		2193			ND	SM	NTA		
agalsidase alfa	Replagal	Fabry disease	other alimentary tract and metabolis m products	2/6/2004		6/20/2014		3787	Discontinu ed from market	ND	B	STA		

celecoxib	Celebrex	prevention of familial adenomatous polyposis	antineoplastic agents	5/20/2004		12/17/2004		211	Increase in cardiovascular risk	NI	SM	NTA		
anastrozole	Arimidex	breast cancer	endocrine therapy	6/20/2004	12/2/2008		1626			NI	SM	NTA		
memantine	Ebixa	Alzheimer's disease	psychoanalitics	12/8/2004		4/21/2011		2325	Challenges with patient recruitment based on availability of generics and alternative treatments and the ethics of enrolling Alzheimer's patients into placebo-controlled trials	ND	SM	NTA		
bortezomib	Velcade	multiple myeloma	antineoplastic agents	1/27/2005	9/11/2007		957			ND	SM	NTA		
letrozole	Femara	adjuvant treatment of breast cancer in postmenopausal women	endocrine therapy	4/1/2005	12/17/2010		2086			NI	SM	NTA		
delta-9-tetrahydrocannabinol/cannabidiol	Sativex	neuropathic pain in patients with Multiple Sclerosis	analgesics	4/15/2005	5/31/2018		4794			ND	SM	NTA		
capecitabine	Xeloda	breast cancer	antineoplastic agents	12/7/2005	10/23/2008		1051			NI	SM	NTA		

bortezomi b	Velcade	multiple myeloma	antineopla stic agents	4/24/2006	9/11/2007		505			NI	SM	NTA		
exemestan e	Aromasin	breast cancer	endocrine therapy	5/12/2006	6/6/2008		756			NI	SM	NTA		
darunavir	Prezista	HIV	antivirals for systemic use	7/28/2006	2/11/2009		929			ND	SM	MTA		
sorafenib	Nexavar	renal cancer	antineopla stic agents	7/28/2006	6/12/2009		1050			ND	SM	NTA		
sunitinib	Sutent	renal cancer	antineopla stic agents	8/17/2006	4/23/2010		1345			NI	SM	MTA		
letrozole	Femara	adjuvant treatment of postmeno pausal women with hormone receptor- positive early breast cancer	endocrine therapy	10/6/2006	12/17/201 0		1533			NI	SM	NTA		
deferasirox	Exjade	thalassemia (iron chelation)	all other therapeuti c products	10/18/200 6	12/2/2016		3698			ND	SM	NTA		
docetaxel	Taxotere	node- positive breast cancer	antineopla stic agents	12/14/200 6	5/31/2018		4186			NI	SM	NTA		
hepatitis B immune globulin	HepaGam B	prevention of recurrence of hepatitis B	immune sera and immunogl obulins	1/19/2007	5/31/2018		4150			ND	B			
levodopa/c arbidopa	Duodopa	Parkinson's disease	anti- parkinson drugs	3/1/2007	3/12/2014		2568			ND	SM	NTA		
dasatinib	Sprycel	chronic myeloid leukemia	antineopla stic agents	3/26/2007	11/19/200 9		969			ND	SM	STA	3/29/2006	362

imatinib	Gleevec	chronic myeloid leukemia (CML) in chronic phase (pediatric)	antineoplastic agents	4/24/2007	2/21/2013		2130			NI	SM	STA		
delta-9-tetrahydrocannabinol/cannabidiol	Sativex	adjunctive analgesic treatment	analgesics	8/1/2007	5/31/2018		3956			NI	SM	NTA		
nelarabine	Atriance	leukemia (T-cell acute lymphoblastic leukemia) or lymphoma	antineoplastic agents	9/22/2007	5/31/2018		3904			ND	SM		9/28/2005	724
nesiritide	Natrecor	symptomatic Acute Decompensated Heart Failure (ADHF)	cardiac therapy	11/8/2007		8/1/2012		1728	Discontinued from market	ND	B	NTA	2/5/2007	276
pregabalin	Lyrica	central neuropathic pain	antiepileptics	11/9/2007	6/29/2010		963			NI	SM	NTA		
raltegravir	Isentress	HIV	antivirals for systemic use	11/27/2007	3/4/2009		463			ND	SM	MTA	4/18/2007	223
lenalidomide	Revlimid	anemia due to myelodysplastic syndromes	immunosuppressants	1/17/2008	6/6/2013		1967			ND	SM	STA	2/12/2007	339
panitumumab	Vectibix	metastatic colorectal carcinoma	antineoplastic agents	4/3/2008	5/31/2018		3710			ND	B	NTA	4/28/2006	706
sunitinib	Sutent	renal cancer	antineoplastic agents	5/1/2008	4/23/2010		722			NI	SM	MTA		

idebenone	Catena	Friedreich's Ataxia	psychoanal eptics	7/23/2008		2/27/2013		1680	Discontinu ed by company	ND	SM	NTA	10/26/200 7	271
nilotinib	Tasigna	chronic myeloid leukemia	antineopla stic agents	9/9/2008	11/30/201 1		1177			ND	SM	NTA	12/5/2006	644
bevacizum ab	Avastin	HER2- negative breast cancer	antineopla stic agents	2/6/2009		11/25/201 1		1022	No reason given	NI	B	NTA		
aztreonam for inhalation solution	Cayston	cystic fibrosis patients with chronic pulmonary Pseudomo nas aeruginosa infections	antibacteri als for systemic use	7/17/2009	5/17/2011		669			ND	SM	NTA	3/25/2008	479
imatinib	Gleevec	adjuvant treatment of adult patients with GIST	antineopla stic agents	12/22/200 9	5/31/2018		3082			NI	SM			
bevacizum ab	Avastin	glioblasto ma	antineopla stic agents	3/24/2010	5/31/2018		2990			NI	B	NTA		
nilotinib	Tasigna	chronic phase Philadelphi a chromoso me positive chronic myeloid leukemia	antineopla stic agents	7/22/2010	8/18/2011		392			NI	SM	NTA		

everolimus	Afinitor	subependymal giant cell astrocytoma (SEGA) associated with tuberous sclerosis (TS)	immunosuppressants	6/20/2011	5/31/2018		2537			NI	SM	NTA		
nilotinib	Tasigna	newly diagnosed Philadelphia chromosome positive chronic myeloid leukemia	antineoplastic agents	6/23/2011	8/19/2015		1518			NI	SM	NTA		
dasatinib	Sprycel	adult patients with newly diagnosed Philadelphia chromosome positive (Ph+) chronic myeloid leukemia (CML) in chronic phase	antineoplastic agents	7/19/2011	11/26/2015		1591			NI	SM	STA		
crizotinib	Xalkori	Non-small cell lung cancer	antineoplastic agents	4/25/2012	11/18/2015		1302			ND	SM	NTA	6/8/2011	322
remestemcel-L	Prochymal	acute Graft versus Host Disease (aGvHD)	unassigned	5/17/2012	5/31/2018		2205			ND	B		9/15/2011	245

brentuximab vedotin	Adcetris	Hodgkin lymphoma (HL); systemic anaplastic large cell lymphoma (sALCL)	antineoplastic agents	2/1/2013	5/31/2018		1945			ND	B	NTA	4/11/2012	296
eculizumab	Soliris	Paroxysmal nocturnal haemoglobinuria	immunosuppressants	3/1/2013	6/30/2015		851			NI	B	NTA		
romidepsin	Istodax	relapsed/refractory peripheral T-cell lymphoma	antineoplastic agents	10/16/2013	5/31/2018		1688			ND	SM	NTA	12/22/2011	664
bosutinib	Bosulif	chronic, accelerated, or blast phase Ph+ CML	antineoplastic agents	3/7/2014	5/31/2018		1546			ND	SM	NTA	12/20/2011	808
simeprevir	Galexos	hepatitic C	antivirals for systemic use	1/30/2015	11/24/2017		1029			NI	SM	MTA		
dabrafenib	Tafinlar	unresectable or metastatic melanoma	antineoplastic agents	3/6/2015	5/13/2016		434			NI	SM	NTA		
ceritinib	Zykadia	metastatic non-small cell lung cancer	antineoplastic agents	3/27/2015	5/31/2018		1161			ND	SM	NTA	6/16/2014	284
idelalisib	Zydelig	follicular lymphoma	antineoplastic agents	3/27/2015	5/31/2018		1161			ND	SM	NTA	2/28/2014	392

ponatinib	Iclusig	chronic phase, accelerated phase, or blast phase chronic myeloid leukemia, ALL	antineoplastic agents	4/2/2015	5/31/2018		1155			ND	SM	MTA	5/23/2013	679
pembrolizumab	Keytruda	metastatic melanoma	antineoplastic agents	5/19/2015	12/22/2017		948			ND	B	NTA	6/23/2014	330
ibrutinib	Imbruvica	relapsed or refractory mantle cell lymphoma	antineoplastic agents	7/28/2015	9/12/2017		777			NI	SM	STA		
daclatasvir	Daklinza	hepatic C	antivirals for systemic use	8/13/2015	11/9/2016		454			ND	SM	MTA	5/16/2014	454
asfotase alfa	Strensiq	paediatric-onset hypophosphatasia	other alimentary tract and metabolism products	8/14/2015	5/31/2018		1021			ND	B	STA	11/14/2014	273
blinatumomab	Blinicyto	Philadelphia chromosome-negative relapsed or refractory B precursor acute lymphoblastic leukemia (ALL)	antineoplastic agents	12/22/2015	11/16/2017		695			ND	B	NTA	1/30/2015	326
pembrolizumab	Keytruda	metastatic melanoma	antineoplastic agents	3/7/2016	5/31/2018		815			NI	B	NTA		
trametinib	Mekinist	metastatic melanoma	antineoplastic agents	3/11/2016	5/13/2016		63			NI	SM	NTA		

palbociclib	Ibrance	in combination with letrozole for breast cancer	antineoplastic agents	3/16/2016	11/17/2016		246			ND	SM	NTA	2/12/2015	398
idarucizumab	Praxbind	reversal of the anticoagulant effects of dabigatran	all other therapeutic products	4/29/2016	5/31/2018		762			ND	B	NTA	3/4/2015	422
nivolumab	Opdivo	metastatic melanoma	antineoplastic agents	4/29/2016	5/31/2018		762			NI	B	STA	3/16/2015	410
olaparib	Lynparza	serous epithelial ovarian, fallopian tube or primary peritoneal cancer	antineoplastic agents	4/29/2016	5/31/2018		762			ND	SM	MTA		
daratumumab	Darzalex	multiple myeloma	antineoplastic agents	6/29/2016	5/31/2018		701			ND	B	NTA	9/14/2015	289
osimertinib	Tagrisso	non-small cell lung cancer	antineoplastic agents	7/5/2016	1/19/2018		563			ND	SM	MTA	10/1/2015	278
venetoclax	Venclexta	chronic lymphocytic leukemia (CLL)	antineoplastic agents	9/20/2016	5/31/2018		618			ND	SM	NTA	12/21/2015	274
alectinib	Alecensaro	non-small cell lung cancer	antineoplastic agents	9/29/2016	5/31/2018		609			ND	SM		11/12/2015	322
nivolumab	Opdivo	metastatic melanoma	antineoplastic agents	10/26/2016	5/31/2018		582			NI	B	STA		
agalsidase alfa	Replagal	Fabry disease	other alimentary tract and metabolism products	2/10/2017	5/31/2018		475			N1	B	STA		

atezolizumab	Tecentriq	metastatic urothelial carcinoma	other alimentary tract and metabolism products	4/12/2017	5/31/2018		414			ND	B		7/18/2016	268
durvalumab	Imfinzi	metastatic urothelial carcinoma	antineoplastic agents	11/3/2017	5/31/2018		209			ND	B		2/16/2017	260
nivolumab	Opdivo	metastatic melanoma	antineoplastic agents	11/10/2017	5/31/2018		202			NI	B	STA		
olaratumab	Lartruvo	advanced soft tissue sarcoma	antineoplastic agents	11/23/2017	5/31/2018		189			ND	B		3/6/2017	262
sebelipase alfa	Kanuma	lysosomal acid lipase (LAL) deficiency	other alimentary tract and metabolism products	12/15/2017	5/31/2018		167			ND	B		3/23/2017	267
avelumab	Bavencio	metastatic Merkel cell carcinoma	antineoplastic agents	12/18/2017	5/31/2018		164			ND	B		3/23/2017	270

Supplementary File 2: Drug approved under standard review process, 2005-2017				
Generic name	Brand name	Date New Drug Submission filed	Date of Notice of Compliance	Time in approval process (days)
Acamprosate	Campral	12/23/2005	3/16/2007	448
Aclidinium	Tudorza genuair	7/31/2012	7/29/2013	363
Afatinib	Giotrif	9/12/2012	11/1/2013	415
Aflibercept	Eylea	8/17/2011	11/8/2013	814
Aflibercept	Zaltrap	5/9/2012	2/12/2014	644
Albiglutide	Eperzan	5/24/2013	7/15/2015	782
Albutrepenonacog Alfa	Idelvion	2/9/2015	1/26/2016	351
Alemtuzumab	Mabcampath	11/1/2001	11/30/2005	1490
Alirocumab	Praluent	3/20/2015	4/11/2016	388
Aliskiren	Rasilez	4/20/2006	11/14/2007	573
Alitretinoin	Toctino	12/19/2007	11/13/2009	695
Alogliptin	Nesina	8/29/2012	11/27/2013	455
Ambrisentan	Volibris	4/3/2007	3/20/2008	352
Anidulafungin	Eraxis	11/30/2006	11/14/2007	349
Anthrax immune globuline	Anthrasil	11/24/2016	11/6/2017	347
Antihemophilic Factor (Recombinant) Porcine Sequence	Obizur	8/15/2014	10/14/2015	425
Antihemophilic Factor (Recombinant), PEGylated	Adynovate	12/2/2015	11/17/2016	351
Antihemophilic factor, FC fusion protein	Eloctate	7/30/2013	8/22/2014	388
Apixaban	Eliquis	10/5/2010	12/16/2011	437
Apremilast	Otezla	11/8/2013	11/12/2014	369
Aprepitant	Emend	9/12/2006	8/24/2007	346
Aripiprazole	Abilify	2/22/2008	7/9/2009	503

Asunaprevir	Sunvepra	5/16/2014	3/9/2016	663
Axitinib	Inlyta	6/28/2011	7/12/2012	380
Azelastine and fluticasone	Dymista	12/4/2013	10/23/2014	323
Azilsartan	Edarbi	3/28/2011	3/8/2012	346
Belimumab	Benlysta	7/15/2010	7/6/2011	356
Bendamustine	Treanda	9/8/2011	8/24/2012	351
Benralizumab	Fasenra	3/21/2017	2/22/2018	338
Bepotastine	Bepreve	8/19/2015	7/27/2016	343
Besifloxacin	Besivance	11/3/2008	10/23/2009	354
Bilastine	Blexten	5/11/2015	4/21/2016	346
Botulinium antitoxin serotypes A, B,C, D, E, F and G	BAT	12/22/2015	12/8/2016	352
Brexpiprazole	Rexulti	2/26/2016	2/16/2017	356
Brivaracetam	Brivlera	3/30/2015	3/9/2016	345
Brodalumab	Siliq	5/24/2016	3/6/2018	651
Bromfenac	Prolensa	4/4/2014	3/26/2015	356
Cabazitaxel	Jevtana	7/2/2010	6/16/2011	349
Canagliflozin	Invokana	7/27/2012	5/23/2014	665
Capsular polysaccharide	Synflorix	12/19/2007	12/11/2008	358
Ceftobiprole	Zeftera	7/16/2007	6/26/2008	346
Ceftolozane Sulfate and Tazobactam Sodium	Zerbaxa	9/15/2014	9/30/2015	380
Certolizumab pegol	Cimzia	2/28/2008	8/12/2009	531
Ciclesonide	Alvesco	9/28/2005	9/11/2006	348
Clevidipine	Cleviprex	10/7/2008	4/15/2011	920
Clofarabine	Clolar	5/8/2008	7/16/2009	434
Coagulation factor IX (recombinant) pegylated	Rebinyn	12/12/2016	11/29/2017	352

Cobimetinib	Cotellic	3/12/2015	2/22/2016	347
Colesevelam	Lodalis	10/9/2009	9/22/2011	713
Collagenase clostridium histolyticum	Xiaflex	6/7/2011	7/5/2012	394
Conjugated estrogens and bazedoxifene acetate	Duavive	12/4/2012	10/23/2014	688
Dabigatran	Pradax	6/19/2007	6/10/2008	357
Dabrafenib	Tafinlar	7/31/2012	7/16/2013	350
Daclizumab beta	Zinbryta	12/21/2015	12/8/2016	353
Dapagliflozin	Forxiga	12/7/2012	12/12/2014	735
Daptomycin	Cubicin	11/14/2005	9/24/2007	679
Darifenacin	Enablex	9/23/2003	11/14/2005	783
Deferiprone	Ferriprox	3/7/2013	2/13/2015	708
Degarelix	Firmagon	6/2/2008	11/16/2009	532
Denosumab	Prolia	1/14/2009	8/6/2010	569
Desvenlafaxine	Pristiq	10/16/2007	2/4/2009	477
Dexlansoprazole	Dexilant	8/11/2009	7/22/2010	345
Dexmedetomidine	Precedex	12/19/2008	12/9/2009	355
Dienogest	Visanne	8/21/2009	10/12/2011	782
Difluprednate	Durezol	11/20/2012	11/4/2013	349
Dimethyl fumarate	Tecfidera	4/16/2012	4/3/2013	352
Dolutegravir	Tivicay	12/17/2012	10/31/2013	318
Doripenem	Doribax	9/24/2007	9/2/2009	709
Doxycycline	Efracea	12/2/2010	11/14/2011	347
Dulaglutide	Trulicity	2/10/2014	11/10/2015	638
Duloxetine	Cymbalta	11/23/2006	11/1/2007	343
Dupilumab	Dupixent	12/16/2016	11/30/2017	349
Edoxaban	Lixiana	9/3/2015	11/4/2016	428
Efalizumab	Raptiva	4/17/2003	10/24/2005	921

Efinaconazole	Jublia	10/19/2012	10/2/2013	348
Eliglustat	Cerdelga	3/19/2015	4/21/2017	764
Eltrombopag	Revolade	12/8/2008	1/12/2011	765
Eluxadoline	Viberzi	12/11/2015	1/26/2017	412
Elvitegravir, Cobicistat, Emtricitabine, Tenofovir Alafenamide Hemifumarate	Genvoya	1/19/2015	11/27/2015	312
Elvitgravir, Emtricitabine, Tenofovir, Cobicistat	Stribild	12/19/2011	11/26/2012	343
Empagliflozin	Jardiance	4/17/2013	7/23/2015	827
Emtricitabine	Emtriva	9/21/2004	11/21/2005	426
Eplerenone	Inspra	3/8/2008	2/26/2009	355
Eribulin	Halaven	12/31/2010	12/14/2011	348
Eslicarbazepine	Aptiom	6/12/2013	7/8/2014	391
Everolimus	Afinitor	10/31/2008	12/14/2009	409
Evolocumab	Repatha	9/25/2014	9/10/2015	350
Exenatide	Byetta	4/6/2009	1/13/2011	647
Ezogabine	Potiga	10/31/2011	10/8/2012	343
Fampridine	Fampyra	12/7/2009	2/10/2012	795
Febuxostat	Uloric	8/31/2009	9/22/2010	387
Ferumoxytol	Feraheme	12/18/2009	12/8/2011	720
Fesoterodine	Toviaz	3/1/2011	2/9/2012	345
Fidaxomicin	Dificid	11/2/2011	6/7/2012	218
Finaxofloxacin	Xtoro	6/5/2014	3/11/2016	645
Fingolimod	Gilenya	3/23/2010	3/9/2011	351
Flextouch (insulin degludec)	Tresiba	9/13/2016	8/25/2017	346
Flibanserin	Addyi	11/18/2015	2/27/2018	832
Florbetaben 18F	Neuraceq	2/26/2016	2/22/2017	362

Fluticasone	Avamys	7/24/2006	8/14/2007	386
Fluticasone and vilatnerol	Breo ellipta	7/20/2012	7/3/2013	348
Follitropin delta	Rekoverle	12/9/2015	3/22/2018	834
Fosaprepitant	Emend IV	4/18/2008	4/1/2009	348
Gadofosveset	Vasovist	1/26/2005	10/31/2006	643
Gadoterate Meglumine	Dotarem	7/31/2015	11/25/2016	483
Gadoxetate	Primovist	2/2/2009	1/14/2010	346
Galsulfase	Naglazyme	9/28/2012	9/16/2013	353
Golimumab	Simponi	4/29/2008	4/7/2009	343
Guselkumab	Tremfya	12/25/2016	11/10/2017	320
Haemagglutinin-Strain A	Arepranrix H5N1	7/5/2007	2/13/2013	2050
Histrelin	Vantas	7/2/2004	3/10/2006	616
Human C1 esterase inhibitor	Berinert	4/7/2008	5/31/2010	784
Human papillomavirus 9 alent vaccine, recombinant	Gardasil 9	2/13/2014	2/5/2015	357
Indacaterol	Onbrez breezhaler	12/22/2010	12/6/2011	349
Influenza vaccine	Flumist	7/21/2009	6/22/2010	336
Ingenol	Picato	2/9/2012	1/30/2013	356
Inotuzumab ozogamicin	Besponsa	3/30/2017	3/15/2018	350
Insulin detemir	Levemir	12/13/2002	9/29/2005	1021
Insulin glulisine	Apidra	11/3/2003	4/12/2006	891
Ioflupane	Datscan	12/22/2016	12/7/2017	350
Ipilimumab	Yervoy	10/13/2010	2/1/2012	476
Ivabradine	Lancora	8/23/2013	12/23/2016	1218
Ivermectin	Rosiver	5/6/2014	4/22/2015	351
Ixekizumab	Taltz	6/5/2015	5/25/2016	355
Japanese encephalitis vaccine	Ixiaro	6/20/2008	10/29/2009	496
Lacosamide	Vimpat	3/17/2009	9/30/2010	562

Lanreotide	Somatuline autogel	5/24/2005	7/17/2006	419
Lanthanum	Fosrenol	11/4/2005	10/17/2006	347
Lapatinib	Tykerb	12/4/2006	5/15/2009	893
Lenvatinib	Lenvima	1/8/2015	12/22/2015	348
Levomilnacipran	Fetzima	8/13/2013	5/8/2015	633
Lifitegrast	Xiidra	10/28/2016	12/22/2017	420
Linaclotide	Constella	12/14/2012	12/2/2013	353
Linagliptin	Trajenta	8/17/2010	7/28/2011	345
Liraglutide	Victoza - 1.2 mg pen-injector	6/27/2008	5/21/2010	693
Lisdexamfetamine	Vyvanse	3/7/2008	2/19/2009	349
Lixisenatide	Adlyxine	4/26/2016	5/25/2017	394
Lomitapide	Juxtapid	11/21/2012	2/4/2014	440
Lonococog Alfa	Afstyla	12/23/2015	12/12/2016	355
Loteprednol	Alrex	10/3/2007	12/23/2008	447
Lubiprostone	Amitiza	10/31/2014	10/14/2015	348
Lumiracoxib	Prexige	11/15/2005	11/2/2006	352
Lurasidone	Latuda	6/30/2011	6/13/2012	349
Lutropin Alfa	Luveris	3/31/2000	6/24/2005	1911
Macitentan	Opsumit	12/24/2012	11/6/2013	317
Meningococcal oligosaccharides conjugated	Menveo	12/22/2008	5/21/2010	515
Meningococcal polysaccharide conjugate vaccine	Nimenrix	3/21/2012	3/5/2013	349
Mepolizumab	Nucala	11/19/2014	12/3/2015	379
Methoxy Polyethylene glycol-epoetin beta	Mircera	6/8/2006	3/31/2008	662
Methyl aminolevulinate	Metvix	12/27/2006	2/26/2009	792
Micafungin	Mycamine	6/27/2002	5/22/2007	1790
Mifepristone and Misoprostol	Mifegymiso	11/14/2012	7/29/2015	987

Migalastat	Galafold	7/15/2016	9/5/2017	417
Mirabegron	Myrbetriq	3/19/2012	3/6/2013	352
Multicomponent meningococcal B vaccine	Bexsero	5/26/2011	12/6/2013	925
Naloxegol	Movantik	8/30/2013	6/2/2015	641
Nebivolol	Bystolic	12/23/2011	12/21/2012	364
Necitumumab	Portrazza	3/29/2016	3/16/2017	352
Neisseria meningitidis GRP B recombinant lipoprotein 2086 subfamily A, neisseria meningitidis GRP B recbombinant 2086 subfamily B	Trumenba	5/31/2016	10/5/2017	492
Nepafenac	Nevanac	5/4/2007	4/17/2008	349
Netupitant, palonestron	Akynzeo	10/13/2016	9/28/2017	350
Nintedanib	Ofev	7/9/2014	6/25/2015	351
Nusinersen	Spinraza	11/10/2016	6/29/2017	231
Obinutuzumab	Gazyva	10/2/2013	11/25/2014	419
Ocrelizumab	Ocrevus	9/16/2016	8/14/2017	332
Ofatumumab	Arzerra	1/21/2011	3/9/2012	413
Olmesartan	Olmotec	8/3/2007	10/28/2008	452
Olodaterol	Striverdi respimat	6/28/2012	6/11/2013	348
Ozenoxacin	Ozanex	4/1/2016	5/1/2017	395
Paliperidone	Invega	9/27/2006	9/26/2007	364
Paliperidone	Invega sustenna	4/24/2009	6/30/2010	432
Palonosetron	Aloxi	3/31/2011	3/14/2012	349
Pantoprazole	Pantaloc M	5/4/2004	4/22/2005	353
Paricalcitol	Zemplar	11/3/2003	3/31/2005	514
Pasireotide	Signifor	2/8/2011	9/23/2013	958
Pazopanib	Votrient	6/16/2009	5/27/2010	345

Peginterferon Beta-1A	Plegridy	7/31/2013	8/10/2015	740
Peramivir	Rapivab	1/25/2016	1/5/2017	346
Perampanel	Fycompa	2/29/2012	4/4/2013	400
Plerixafor	Mozobil	12/21/2010	12/8/2011	352
Polidocanol	Varithena	8/20/2014	8/4/2015	349
Prasugrel	Effient	4/3/2008	4/16/2010	743
Pregabalin	Lyrica	12/1/2003	6/3/2005	550
Propiverine	Mictoryl	10/23/2015	1/5/2017	440
Prucalopride	Resotran	12/17/2010	12/7/2011	355
Radium-223 dichloride	Xofigo	12/21/2012	12/12/2013	356
Ramucirumab	Cyramza	7/28/2014	7/16/2015	353
Rasagiline	Azilect	10/17/2005	8/17/2006	304
Recombinant human coagulation Factor IX, FC fusion protein	Alprolix	3/28/2013	3/20/2014	357
Recombinant human papillomavirus	Cervarix	4/1/2009	2/3/2010	308
Reslizumab	Cinqair	7/3/2015	7/20/2016	383
Retapamulin	Altargo	2/12/2007	3/19/2008	401
Ribociclib	Kisqali	3/17/2017	3/2/2018	350
Rilpivirine	Edurant	8/13/2010	7/21/2011	342
Rivaroxaban	Xarelto	12/31/2007	9/15/2008	259
Rivastigmine	Exelon patch 10	11/1/2006	11/29/2007	393
Roflumilast	Daxas	8/10/2009	11/23/2010	470
Rotavirus vaccine	Rotarix	11/1/2006	10/9/2007	342
Rotaviruses	Rotateq	8/4/2005	8/1/2006	362
Rotigotine	Neupro	3/30/2011	3/21/2013	722
Rufinamide	Banzel	7/6/2010	6/22/2011	351
Rupatadine	Rupall	8/4/2015	7/20/2016	351
Sarilumab	Kevzara	1/29/2016	1/12/2017	349
Saxagliptin	Onglyza	7/31/2008	9/14/2009	410
Secukinumab	Cosentyx	12/17/2013	2/27/2015	437

Selexipag	Uptravi	2/13/2015	1/20/2016	341
Semaglutide	Ozempic	1/19/2017	1/4/2018	350
Senapine	Saphris	11/12/2009	10/7/2011	694
Sevelamer	Renvela	6/30/2008	7/7/2010	737
Sildenafil	Rapaflo	12/21/2009	1/11/2011	386
Simvastatin	Nuwig	11/1/2013	10/23/2014	356
Sitagliptin	Januvia	1/20/2006	12/14/2007	693
Sitaxsentan	Thelin	10/24/2005	5/30/2007	583
Sodium oxybate	Xyrem	12/9/2003	8/5/2005	605
Solifenacin	Vesicare	2/25/2005	2/20/2006	360
Stiripentol	Diacomit	10/8/2010	12/21/2012	805
Sucroferric oxyhydroxide	Velphoro	12/22/2016	1/5/2018	379
Sugammadex	Bridion	12/23/2014	2/5/2016	409
Sulesomab	Leukoscan	3/25/1998	1/17/2005	2490
Tafeloprost	Saflutan	6/10/2013	5/26/2014	350
Taliglucerase Alfa	Elelyso	6/18/2013	5/29/2014	345
Tapentadol	Nucynta CR	12/14/2009	12/2/2010	353
Tedizolid	Sivextro	4/1/2014	3/17/2015	350
Telavancin	Vibativ	10/3/2007	9/29/2009	727
Teriflunomide	Aubagio	11/29/2012	11/14/2013	350
Tesamorelin	Egrifta	6/17/2011	4/29/2014	1047
Thrombin alfa	Recothrom	11/4/2008	12/15/2009	406
Tigecycline	Tygacil	5/18/2005	9/14/2006	484
Tocilizumab	Actemra	4/1/2008	4/30/2010	759
Tofacitinib	Xeljanz	4/3/2012	4/17/2014	744
Tolvaptan	Samsca	8/18/2010	7/25/2011	341
Trabectedin	Yondelis	6/1/2009	5/13/2010	346
Tramadol	Tramacet	11/9/2004	7/20/2005	253
Trametinib	Mekinist	8/3/2012	7/18/2013	349
Tropium	Trosec	11/22/2004	1/10/2006	414
Turoctocog alfa	Zonovate	12/16/2013	12/8/2014	357
Ulipristal	Fibristal	6/29/2012	6/24/2013	360

Umecliniium and vilanterol	Anoro ellipta	1/10/2013	12/23/2013	347
Ustekinumab	Stelara	12/28/2007	12/12/2008	350
Vandetanib	Caprelsa	1/27/2011	1/12/2012	350
Varenicline	Champix	2/3/2006	1/24/2007	355
Varicella-zoster virus glycoprotein E	Shingrix	11/17/2016	10/13/2017	330
Vedolizumab	Entyvio	11/21/2013	1/29/2015	434
Velaglucerase alfa	VPRIV	10/21/2009	10/1/2010	345
Vernakalant	Brinavess	1/4/2016	3/13/2017	434
Vilazodone	Viibryd	7/29/2014	7/16/2015	352
Vismodegib	Erivedge	4/2/2012	7/12/2013	466
Vorapaxar	Zontivity	10/31/2014	5/13/2016	560
Vorinostat	Zolinza	6/27/2008	6/11/2009	349
Vortioxetine	Trintellix	9/28/2012	10/22/2014	754
Zucapsaicin	Civanex (Zuacta)	10/30/2008	7/15/2010	623