

Supporting Information for

**Design, Synthesis, and Biological Activity of a Novel Series of Human Sirtuin 2-selective
Inhibitors**

Takayoshi Suzuki,^{*,†‡} Mohammed Naseer Ahmed Khan,[‡] Hideyuki Sawada,^{†‡} Erika Imai,[‡] Yukihiro Itoh,[‡]
Katsura Yamatsuta,[§] Natsuko Tokuda,[§] Jun Takeuchi,[§] Takuya Seko,[§] Hidehiko Nakagawa,[‡] and Naoki
Miyata^{*,‡}

[†]*Graduate School of Medical Science, Kyoto Prefectural University of Medicine, 13 Taishogun
Mishitakatsukasa-Cho, Kita-ku, Kyoto 603-8334, Japan*

[‡]*Graduate School of Pharmaceutical Sciences, Nagoya City University, 3-1 Tanabe-dori, Mizuho-ku, Nagoya,
Aichi 467-8603, Japan*

[§]*Minase Research Institute, Ono Pharmaceutical Co., Ltd., 3-1-1 Sakurai Shimamoto-Cho, Mishima-Gun,
Osaka 618-8585, Japan*

Contents

SPR sensor grams of compound 32a for SIRT2 (Figure S1)	S2
Elemental Analysis	S3

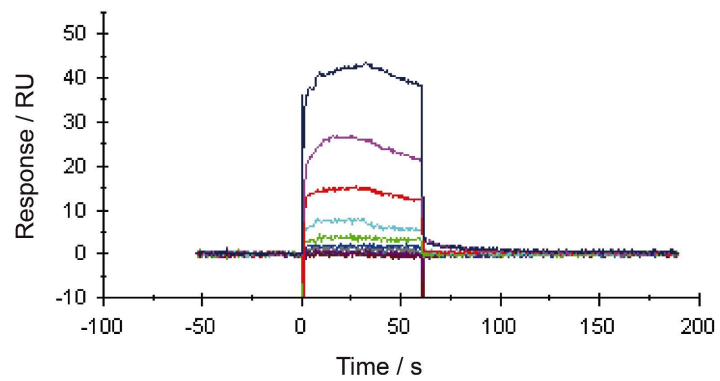


Figure S1. SPR sensor grams of compound **33a** for SIRT2 immobilized on the surface of a CM5 sensor chip. Compound **33a** was injected in the range 0.0625 (bottom) to 80 (top) μM .

Elemental Analysis

Compd		calcd	found
12	$C_{20}H_{17}N_3O_2 \cdot 1/4H_2O$	C, 71.52; N, 12.51; H, 5.25	C, 71.85; N, 12.29; H, 5.44
14	$C_{20}H_{17}N_3O_2 \cdot 1/3H_2O$	C, 71.21; N, 12.46; H, 5.28	C, 71.61; N, 12.08; H, 5.49
17	$C_{20}H_{23}N_3O_2$	C, 71.19; H, 6.87; N, 12.45	C, 71.13; H, 6.81; N, 12.42
19	$C_{19}H_{16}N_4O_2$	C, 68.66; H, 4.85; N, 16.86	C, 68.42; H, 5.05; N, 16.58
20	$C_{19}H_{16}N_4O_2$	C, 68.66; H, 4.85; N, 16.86	C, 68.27; H, 4.62; N, 16.62
22	$C_{20}H_{17}N_3O_2$	C, 72.49; N, 12.65; H, 5.31	C, 72.59; N, 12.65; H, 5.31
23	$C_{21}H_{19}N_3O_2 \cdot 1/3H_2O$	C, 71.96; N, 11.96; H, 5.64	C, 71.70; N, 11.87; H, 5.48
24	$C_{21}H_{19}N_3O_2 \cdot 1/10H_2O$	C, 72.65; N, 12.10; H, 5.57	C, 72.76; N, 12.16; H, 5.61
26	$C_{20}H_{17}N_3O_2 \cdot 1/5H_2O$	C, 71.71; N, 12.54; H, 5.24	C, 71.85; N, 12.52; H, 5.24
27	$C_{21}H_{19}N_3O_2 \cdot 1/10H_2O$	C, 72.65; N, 12.10; H, 5.57	C, 72.77; N, 12.06; H, 5.59
33b	$C_{22}H_{22}N_2O_2$	C, 76.28; N, 8.09; H, 6.40	C, 76.13; N, 8.02; H, 6.61
33c	$C_{22}H_{22}N_2O_2 \cdot 1/5H_2O$	C, 75.49; N, 8.00; H, 6.45	C, 75.57; N, 7.96; H, 6.44
33d	$C_{22}H_{22}N_2O_2$	C, 76.28; N, 8.09; H, 6.40	C, 76.03; N, 8.01; H, 6.52
33e	$C_{22}H_{19}F_3N_2O_2 \cdot 1/3H_2O$	C, 65.03; N, 6.89; H, 4.88	C, 65.03; N, 6.91; H, 4.85
33f	$C_{22}H_{19}F_3N_2O_2$	C, 65.99; N, 7.00; H, 4.78	C, 66.09; N, 7.06; H, 4.94
33h	$C_{21}H_{19}FN_2O_2$	C, 71.98; N, 8.00; H, 5.47	C, 72.00; N, 8.06; H, 5.45
33i	$C_{21}H_{19}FN_2O_2$	C, 71.98; N, 8.00; H, 5.47	C, 71.60; N, 8.07; H, 5.61
33j	$C_{21}H_{19}FN_2O_2$	C, 71.98; N, 8.00; H, 5.47	C, 71.69; N, 8.00; H, 5.44
33k	$C_{21}H_{19}ClN_2O_2$	C, 68.76; N, 7.64; H, 5.22	C, 68.69; N, 7.54; H, 5.33
33l	$C_{21}H_{19}ClN_2O_2 \cdot 1/10H_2O$	C, 68.42; N, 7.62; H, 5.25	C, 68.32; N, 7.60; H, 5.24
33m	$C_{21}H_{19}ClN_2O_2 \cdot 1/10H_2O$	C, 68.42; N, 7.62; H, 5.25	C, 68.47; N, 7.62; H, 5.39
33n	$C_{21}H_{19}BrN_2O_2 \cdot 1/10H_2O$	C, 61.06; N, 6.78; H, 4.68	C, 61.01; N, 6.87; H, 4.73
33o	$C_{21}H_{19}N_2O_2B \cdot 1/4H_2O$	C, 60.66; N, 6.74; H, 4.73	C, 60.58; N, 6.82; H, 4.78