Supplemental Materials

1. Blank fluorescence chromatogram of a typical HLM incubation with dGSH in the presence of NADPH.
2. A comparison of fluorescence chromatograms of troglitazone incubations with dGSH and HLM with (A) or without DTT (B) in the quenching solution. Arrows are pointing towards adduct peaks in each panel.
3. CYP inhibition profile of dGSH. As shown in the chart, parallel experiment with GSH generated the same inhibitory profile as dGSH for CYP2C19.

<table>
<thead>
<tr>
<th>Target CYP in HLM</th>
<th>Substrate</th>
<th>Metabolite detected</th>
<th>Positive control (IC50 μM)</th>
</tr>
</thead>
<tbody>
<tr>
<td>CYP2C9</td>
<td>Diclofenac</td>
<td>4'-Hydroxyclofenac</td>
<td>Sulfaphenazole (0.5)</td>
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<tr>
<td>CYP2C19</td>
<td>S-mephenytoin</td>
<td>4'-Hydroxymephenytoin</td>
<td>Tranylcypromine (4.8)</td>
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<tr>
<td>CYP2D6</td>
<td>Dextromethorphan</td>
<td>Dextrophan</td>
<td>Quinidine (4.2)</td>
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<tr>
<td>CYP3A4</td>
<td>Testosterone</td>
<td>6β-Hydroxytestosterone</td>
<td>Ketoconazole (0.08)</td>
</tr>
</tbody>
</table>

![Graph showing inhibition profile]