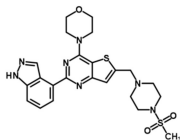


# Product Sheet

## GDC-0941, PI3 Kinase Inhibitor

<b>Catalog #</b>	G941-005; G941-025; G941-100
<b>Description</b>	<p><b>Chemical Name:</b> 2-(1H-Indazol-4-yl)-6-[[4-(methylsulfonyl)-1-piperazinyl]methyl]-4-(4-morpholinyl)-thieno[3,2-d]pyrimidine</p> <p>GDC-0941 is a potent inhibitor of PI3K<math>\alpha</math>, PI3K<math>\beta</math>, PI3K<math>\delta</math> and PI3K<math>\gamma</math> with IC<sub>50</sub> of 3 nM, 33 nM, 3 nM and 75 nM, respectively. Administration of GDC-0941 in animals displays significant inhibitory effect against established human cancer xenografts. It is currently in clinical trials.</p> <p>PI3K inhibitors have been used for differentiation of pluripotent stem cells.</p> <p><i>Ref: Folkes AJ, et al. The identification of 2-(1H-indazol-4-yl)-6-(4-methanesulfonyl-piperazin-1-ylmethyl)-4-morpholin-4-yl-thieno[3,2-d]pyrimidine (GDC-0941) as a potent, selective, orally bioavailable inhibitor of class I PI3 kinase for the treatment of cancer. J Med Chem 51(18):5522-32, 2008</i></p> <p><i>Touboul, et al. Generation of functional hepatocytes from human embryonic stem cells under chemically defined conditions that recapitulate liver development. Hepatology, 51: 1754–1765, 2010</i></p>
<b>Formulation</b>	Powder
<b>Reconstitution</b>	Before reconstitution, we recommend a brief spin to drive down any material dislodged from the bottom of the tube. The compound is soluble in DMSO. Poorly Soluble in water. Dilution into protein-containing aqueous media is recommended.
<b>Stability</b>	The powder is stable for at least 2 year if stored at -20 degree C. The dissolved compound is stable for at least 1 month at 4 degree C, but should be stored in aliquots at -20 degree C for longer term. Protect from light.
<b>Purity</b>	Greater than 99% as determined by LC/MS analysis. LC/MS and/or NMR data available upon request.
<b>Biological Activity</b>	Not determined.

### Structural Info



**MW:** 513.64

**Formula:** C<sub>23</sub>H<sub>27</sub>N<sub>7</sub>O<sub>3</sub>S<sub>2</sub>

**Solubility:** Soluble in DMSO up to 50 mM. Poorly soluble in water.

**CAS:** 957054-30-7

**For Research Use Only. Not for Use in Humans.**