

DESCRIPTION

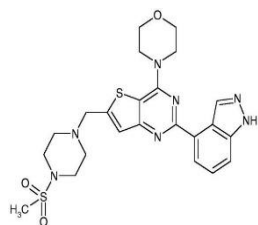
Pictilisib (Synonyms: GDC-0941) is a phosphatidylinositol 3-kinase (PI3K) inhibitor.

PACKAGE SIZE

SKU#	Size
TBS0001-0.5G	0.5G
TBS0001-1.0G	1.0G

CHEMISTRY

CAS No.: 957054-30-7
 Molecular Formula: C₂₃H₂₇N₇O₃S₂
 Molecular Weight: 513.64



Chemical Structure

APPLICATIONS

Target: PI3K; Autophagy
 Pathway: PI3K/Akt/mTOR; Autophagy

SOLUBILITY AND SOLVENT

Solvent	Solubility	Application
DMSO	66 mg/mL	In Vitro
0.5% methylcellulose /0.2% Tween 80	1.0G	In Vivo

STORAGE CONDITIONS

The product is shipped on RT Store at -20°C for 2 years

BIOLOGICAL ACTIVITY

GDC-0941 inhibits the activity of recombinant PI3K in vitro with IC₅₀'s of 0.003 μM (P110α), 0.033 μM (P110β), 0.003 μM (P110δ), 0.075 μM (P110γ), 0.58 μM (mTOR) and 1.23 μM (DNA-PK). GDC-0941 inhibited the growth of tumor cells in vitro with IC₅₀'s of 0.95 μM (U87MG), 0.07 μM (IGROV-1), 0.15 μM (DETROIT 562), 0.28 μM (PC3) and 0.54 μM (SKOV-3). GDC-0941 also inhibited the growth of U87 MG glioblastoma xenografts and IGROV-1 ovarian cancer xenografts in mice.

REFERENCES

1. Wullschlegler S, et al. Quantitative MRI establishes the efficacy of PI3K inhibitor (GDC-0941) multi-treatments in PTEN-deficient mice lymphoma. *Anticancer Res.* 2012, 32:415-20.
2. Zou ZQ, et al. The novel dual PI3K/mTOR inhibitor GDC-0941 synergizes with the MEK inhibitor U0126 in non-small cell lung cancer cells. *Mol Med Report.* 2012 Feb;5(2):503-8.

RELATED PRODUCTS

TBS2001: Resazurin Cell Viability Kit
 TBS2002: LDH Cytotoxicity Assay
 TBS2003: MTT Cell Viability Assay
 TBS2030: Caspase-3 Colorimetric Assay kit

For research use only.