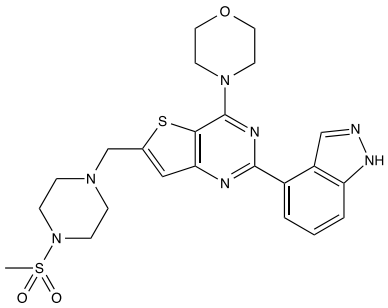
Catalog # 10-2141

GDC-0941

CAS# 957054-30-7

Pictilisib; 4-[2-(1*H*-Indazol-4-yl)-6-[(4-methylsulfonylpiperazin-1-yl)methyl]thieno[3,2-*d*]pyrimidin-4-yl]morpholine

Lot # FBS2148



GDC-0941 is a potent and selective inhibitor of class I phosphatidylinositol-3-kinases (PI3K) with significant antitumor activity – IC_{50}'s: PI3Kα = 3nM, PI3Kβ = 33 nM, PI3Kδ = 3 nM, PI3Kγ = 75 nM.[1,2] GDC-0941 is the chemical probe of choice for the pan-inhibition of class I PI3K's.[3] Currently in clinical trials.[4]

1) Folkes *et al*. (2008), *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** 5522
2) Raynaud *et al.* (2009), *Biological properties of potent inhibitors of class I phosphatidylinositide 3-kinase: from PI-103 through PI-540, PI620 to the oral agent GDC-0941*; Mol.Cancer Ther. **8** 1725
3) Knapp *et al*. (2013), *A public-private partnership to unlock the untargeted kinome*; Nat.Chem.Biol. **9** 3
4) Sarker *et al*. (2015), *First-in-human phase I study of pictilisib (GDC-0941), a potent pan-class I phosphatidylinositol-3-kinase (PI3K) inhibitor, in patients with advanced solid tumors;* Clin.Cancer Res. **21** 77

PHYSICAL DATA

Molecular Weight:	513.64
Molecular Formula:	$C_{23}H_{27}N_7O_3S_2$
Purity:	99% by HPLC
	NMR: (Conforms)
Solubility:	DMSO (>25 mg/mL)
Physical Description:	White or off-white solid
Storage and Stability:	Store as supplied at -20°C for up to 1 year from the date of purchase. Solutions in DMSO may be stored at -20°C for up to 3 months.

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