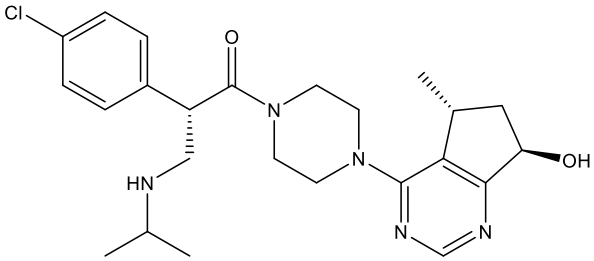
Catalog # 10-4751

Ipatasertib

CAS# 1001264-89-6

(2S)-2-(4-Chlorophenyl)-1-[4-[(5R,7R)-7-hydroxy-5-methyl-6,7-dihydro-5H-cyclopenta[d]pyrimidin-4-yl]piperazin-1-yl]-3-(propan-2-yla,ino)propan-1-one; GDC-0068

Lot # FBS2103



Ipatasertib is a selective (against a panel of 230 kinases) and potent pan-Akt inhibitor (IC_{50}s: Akt1 = 5 nM, Akt2 = 18 nM, Akt3 = 8 nM).[1] It displayed efficacy in xenograft models of prostate, breast, ovarian, colorectal, non-small cell lung, glioblastoma, and melanoma cancers.[2] In clinical trials.

1) Blake *et al.* (2012), *Discovery and preclinical pharmacology of a selective ATP-competitive Akt inhibitor (GDC-0068) for the treatment of human tumors;* J. Med. Chem. **55** 8110
2) Lin *et al*. (2013), *Targeting Activated Akt with GDC-0068, a Novel Selective Aky Inhibitor That is Efficacious in Multiple Tumor Models*; Clin. Cancer Res. **19** 1760

PHYSICAL DATA

Molecular Weight:	458.00
Molecular Formula:	$C_{24}H_{32}ClN_5O_2$
Purity:	>98% by HPLC
	NMR: (Conforms)
Solubility:	DMSO (25 mg/ml); ethanol (20 mg/mL)
Physical Description:	Off-white to pale pink solid
Storage and Stability:	Store as supplied at -20°C for up to 1 year from the date of purchase. Solutions in DMSO or ethanol may be stored at -20°C for up to 3 months.

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