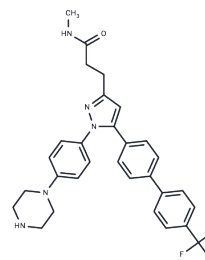


ILK-IN-2

Chemical Properties

CAS No. : 1333146-24-9
Formula: C30H30F3N5O
Molecular Weight: 533.59
Appearance: no data available
Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year



Biological Description

Description	ILK-IN-2 (OSU-T315) is a novel potent, orally active ILK (integrin-linked kinase) inhibitor with IC50 of 0.6 μ M.
Targets(IC50)	Integrin
In vitro	OSU-T315 exhibited high in vitro potency against a panel of prostate and breast cancer cell lines (IC(50), 1-2.5 μ M), while normal epithelial cells were unaffected. OSU-T315 facilitated the dephosphorylation of Akt at Ser-473 and other ILK targets, including glycogen synthase kinase-3 β and myosin light chain. Moreover, OSU-T315 suppressed the expression of the transcription/translation factor YB-1 and its targets HER2 and EGFR in PC-3 cells, which could be rescued by the stable expression of constitutively active ILK [1]. The cytotoxicity of OSU-T315 in normal B or T cells was significantly lower (LC50 > 10 μ M). OSU-T315 had the effect of dose-dependent cytotoxicity toward 2 CLL-derived cell lines, Mec-1 and OSU-CLL (LC50 of 2-3 μ M in both) after 24-hour treatment [2].
In vivo	Athymic nude mice bearing established subcutaneous PC-3 tumors were treated with oral OSU-T315 once daily at 25 and 50 mg/kg or vehicle control. The daily administration of OSU-T315 at both doses was well tolerated. Treatment with oral OSU-T315 in either dose resulted in significant suppression of tumor growth relative to the vehicle control after 35 days of treatment (48% and 62% suppression for 25 and 50 mg/kg, respectively) [1].

Solubility Information

Solubility	DMSO: 9 mg/mL (16.87 mM), (< 1 mg/ml refers to the product slightly soluble or insoluble)
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A DRUG SCREENING EXPERT

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.8741 mL	9.3705 mL	18.741 mL
5 mM	0.3748 mL	1.8741 mL	3.7482 mL
10 mM	0.1874 mL	0.937 mL	1.8741 mL
50 mM	0.0375 mL	0.1874 mL	0.3748 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Reference

Lee SL, et al. Identification and characterization of a novel integrin-linked kinase inhibitor. J Med Chem. 2011 Sep 22;54(18):6364-74.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only· Not for Human or Veterinary or Therapeutic Use

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