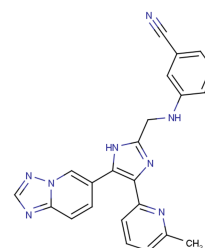


EW-7195

Chemical Properties

CAS No. : 1352609-28-9
Formula: C₂₃H₁₈N₈
Molecular Weight: 406.44
Appearance: no data available
Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year



Biological Description

Description	EW-7195 is a selective and potent inhibitor of ALK5 (TGFβR1) with an IC ₅₀ value of 4.83 nM. EW-7195 has an affinity for ALK5 that is more than 300-fold higher than that of p38α. EW-7195 has an inhibitory effect on TGF-β1-induced Smad signaling, epithelial mesenchymal transition (EMT), and breast cancer metastasis to the lungs.
Targets(IC ₅₀)	ALK, TGF-beta/Smad
In vitro	In vitro, EW-7195 efficiently inhibits the epithelial-to-mesenchymal transition (EMT), motility, and invasiveness of breast cancer cells. Following a 1.5-hour treatment at concentrations of 0.5-1 μM, EW-7195 effectively blocks TGF-β1-induced phosphorylation of Smad2, subsequently preventing the nuclear translocation of Smad2/3. Additionally, EW-7195 hinders TGF-β1-induced mesenchymal morphology and transcriptional activation[1].
In vivo	In both 4T1 orthotopic xenograft and MMTV/cNeu transgenic mice, EW7195 (40 mg/kg; intraperitoneal; three times a week for 3/2.5 weeks) inhibits the development of lung metastasis[1].

Solubility Information

Solubility	DMSO: 40 mg/mL (98.42 mM), Need ultrasonic (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.4604 mL	12.3019 mL	24.6039 mL
5 mM	0.4921 mL	2.4604 mL	4.9208 mL
10 mM	0.246 mL	1.2302 mL	2.4604 mL
50 mM	0.0492 mL	0.246 mL	0.4921 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

Park CY, et al. EW-7195, a novel inhibitor of ALK5 kinase inhibits EMT and breast cancer metastasis to lung. Eur J Cancer. 2011;47(17):2642-2653.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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