

EW-7195

## Chemical Properties

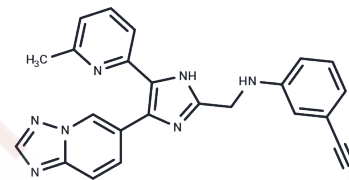
CAS No. : 1352609-28-9

Formula: C<sub>23</sub>H<sub>18</sub>N<sub>8</sub>

Molecular Weight: 406.44

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



## Biological Description

Description	EW-7195 is a selective and potent inhibitor of ALK5 (TGFβR1) with an IC <sub>50</sub> 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 <sub>50</sub> )	ALK,p38 MAPK,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),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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### Preparing Stock Solutions

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	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
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

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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.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

### 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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