

Product Data Sheet

Product Name: EW-7195

Cat. No.: GC65329

Chemical Properties

Cas. No. 1352609-28-9

Formula C₂₃H₁₈N₈ M.Wt 406.44

Solubility DMSO : 50 mg/mL (123.02 mM; Storage Store at -20°C
Need ultrasonic)

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

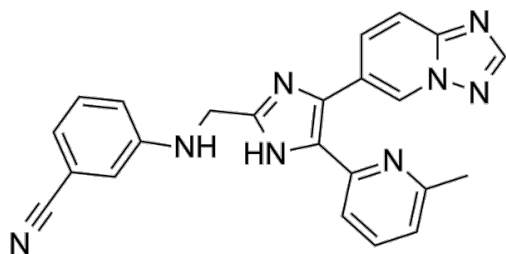
Caution: Product has not been fully validated for medical applications. For research use only.

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Address: 10292 Central Ave. #205, Montclair, CA, USA

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Structure



Protocol

ALK5 p38 α

4.83nM(IC₅₀) 1.5 μ M(IC₅₀)

Background

EW-7195 is a potent and selective ALK5 (TGF β R1) inhibitor with an IC₅₀ of 4.83 nM. EW-7195 has >300-fold selectivity for ALK5 over p38 α . EW-7195 efficiently inhibits TGF- β 1-induced Smad signaling, epithelial-to-mesenchymal transition (EMT) and breast tumour metastasis to the lung[1].

EW7195 inhibits the EMT, motility, and invasiveness of breast cancer cells in vitro. EW-7195

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efficiently blocks TGF- β 1-induced phosphorylation of Smad2 followed by the nuclear translocation of Smad2/3. EW-7195 blocks TGF- β 1-induced mesenchymal morphology. EW-7195 inhibits TGF- β -induced transcriptional activation[1]. EW-7195 (0.5-1 μ M; 1.5 hours) efficiently inhibits TGF- β 1-induced Smad2 phosphorylation[1].

EW7195 (40 mg/kg; i.p.; three times a week for 3/2.5 weeks) inhibits lung metastasis development in both 4T1 orthotopic xenograft and MMTV/cNeu transgenic mice[1].

[1]. 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.

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