

Product Data Sheet

Product Name: CC-90001

Cat. No.: GC62492

Chemical Properties

Cas. No. 1403859-14-2

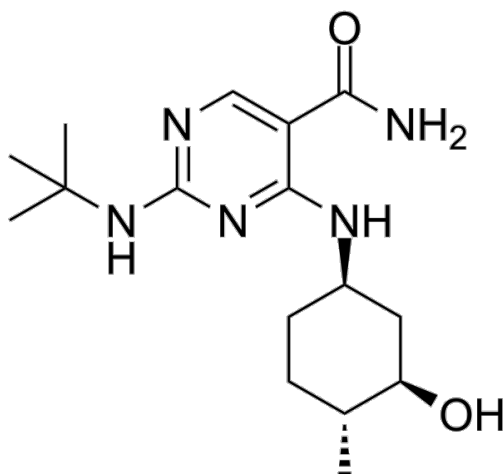
Formula $C_{16}H_{27}N_5O_2$ M.Wt 321.42

Solubility DMSO : 250 mg/mL (777.80 mM; Need ultrasonic) Storage Store at -20°C

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.

Structure



Background

CC-90001 is a potent, selective and orally active inhibitor of c-Jun N-terminal kinase (JNK). CC-

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

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90001 shows 12.9-fold selectivity for JNK1 over JNK2 in a cell-based model. CC-90001 can be used for the research of idiopathic pulmonary fibrosis[1][2].

CC-90001 blocks LPS-induced c-jun phosphorylation with an EC50 of 480 nM in cellular assays[1]. CC-90001 is 12.9-fold more potent for JNK1 inhibition than JNK2 using JNK1 and JNK2 knockout fibroblasts[1].

CC-90001 (3 mg/kg b.i.d.) reduces the development of fibrosis, as evidenced by a 48% reduction in collagen and a 53% reduction in α -smooth muscle actin (α -SMA) in a steatohepatitis model[1]. CC-90001 decreases multiple measures of lung collagen and reduces disease induced increases in α -SMA to nearly baseline levels in a house dust mite model of lung fibrosis[1].

[1]. Bennett B, et, al. CC-90001, a Second Generation Jun N-Terminal Kinase (JNK) Inhibitor for the Treatment of Idiopathic Pulmonary Fibrosis. American Journal of Respiratory and Critical Care Medicine 2017; 195:A5409.

[2]. Kolb M, et, al. Therapeutic targets in idiopathic pulmonary fibrosis. Respir Med. 2017 Oct;131:49-57.

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