
Product Data Sheet

Product Name: MMP13-IN-3

Cat. No.: GC63322

Chemical Properties

Cas. No. 1222173-37-6

Formula $C_{24}H_{22}N_4O_5$

M.Wt 446.46

Solubility DMSO : 100 mg/mL (223.98 mM; ultrasonic and warming and heat to 60°C)

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**

BI-4394 is an inhibitor of matrix metalloproteinase-13 (MMP-13; $IC_{50} = 0.001 \mu M$ for the recombinant human enzyme).¹ It is selective for MMP-13 over MMP-1-3, 7-10, -12, and -14 with IC_{50} values ranging from 8.3 to greater than 22 μM for the recombinant human enzymes. BI-4394 inhibits the degradation of isolated bovine nasal cartilage explants cultured with human MMP-13 ($IC_{50} = 0.031 \mu M$). It decreases disease severity in a mouse model of anti-type II collagen antibody and LPS-induced arthritis when administered at a dose of 100 mg/kg.²

1. Taylor, S.J., Abeywardane, A., Liang, S., et al. Fragment-based discovery of indole inhibitors of matrix metalloproteinase-13J. Med. Chem.54(23)8174-8187(2011) 2. Taylor, S.J., Abeywardane, A., Liang, S., et al. Indole inhibitors of MMP-13 for arthritic disordersACS Omega6(29)18635-18650(2021)

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

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