

Product Data Sheet

Product Name: Bilaid A
Cat. No.: GC46926

Chemical Properties

Cas. No. 2393865-97-7

SMILES O=C(N[C@H](C(C)C)C(N[C@@H](C(C)C)C(N[C@H](CC1=CC=CC=C1)C(O)=O)=O)O)[C@@H](N)CC2=CC=CC=C2

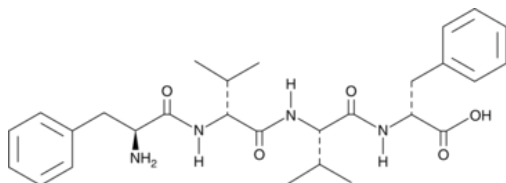
Formula C₂₈H₃₈N₄O₅ M.Wt 510.6

Solubility Storage Store at -20°C

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

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

Structure



Background

Bilaid A is a tetrapeptide agonist of the μ -opioid receptor ($K_i = 3.1 \mu\text{M}$ using HEK293 cell membranes expressing the human receptor) that has been found in *Penicillium*.¹ It inhibits forskolin-induced cAMP accumulation in HEK293 cells expressing the human μ -opioid receptor by 21% when used at a concentration of 10 μM .

1. Dekan, Z., Sianati, S., Yousuf, A., et al. A tetrapeptide class of biased analgesics from an Australian fungus targets the μ -opioid receptor. *Proc. Natl. Acad. Sci. USA* 116(44):22353-22358 (2019)

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

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