

Product Data Sheet

Product Name: Bilaid C
Cat. No.: GC46930

Chemical Properties

Cas. No. 2393866-13-0

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=C(O)C=C2

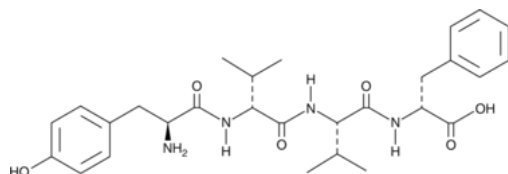
Formula C₂₈H₃₈N₄O₆ M.Wt 526.6

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 C is a tetrapeptide μ -opioid receptor agonist ($K_i = 210$ nM in HEK293 cell membranes expressing the human receptor) that has been found in *Penicillium*.¹ It inhibits forskolin-induced cAMP accumulation by 77% in HEK293 cells expressing the human μ -opioid receptor when used at a concentration of 10 μ M. Bilaid C induces inward rectifying potassium channel (K_{ir}) currents in rat locus coeruleus slices that endogenously express high levels of the μ -opioid receptor ($EC_{50} = 4.2$ μ M).

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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