

## Bilaid C

## Chemical Properties

CAS No. : 2393866-13-0

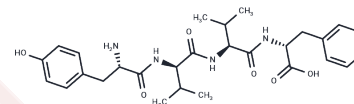
Formula: C<sub>28</sub>H<sub>38</sub>N<sub>4</sub>O<sub>6</sub>

Molecular Weight: 526.62

Keep away from moisture

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



## Biological Description

Description	Bilaid C is a tetrapeptide $\mu$ -opioid receptor agonist ( $K_i = 210$ nM in HEK293 cell membranes expressing the human receptor) that has been found in <i>Penicillium</i> . It inhibits forskolin-induced cAMP accumulation by 77% in HEK293 cells expressing the human $\mu$ -opioid receptor when used at a concentration of 10 $\mu$ M. Bilaid C induces inward rectifying potassium channel (Kir) currents in rat locus coeruleus slices that endogenously express high levels of the $\mu$ -opioid receptor ( $EC_{50} = 4.2$ $\mu$ M).
Targets( $IC_{50}$ )	Opioid Receptor

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.8989 mL	9.4945 mL	18.989 mL
5 mM	0.3798 mL	1.8989 mL	3.7978 mL
10 mM	0.1899 mL	0.9495 mL	1.8989 mL
50 mM	0.038 mL	0.1899 mL	0.3798 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

## Reference

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

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