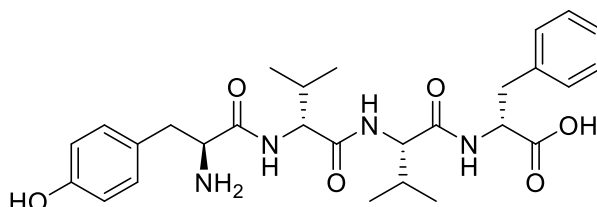


## Bilaid C

Code No.: **BIA-B2278**

Pack sizes: **1 mg, 5 mg**



Synonyms :

## Specifications

CAS #	: 2393866-13-0
Molecular Formula	: C <sub>28</sub> H <sub>38</sub> N <sub>4</sub> O <sub>6</sub>
Molecular Weight	: 526.6
Source	: <i>Penicillium</i> sp.
Appearance	: White solid
Purity	: >95% by HPLC
Long Term Storage	: -20°C
Solubility	: Soluble in methanol or DMSO

## Application Notes

Bilaid C (YvVf-OH) is a hydroxylated analogue of a family of tetrapeptides with an unusual alternating LDLD chirality isolated from an Australian estuarine isolate of *Penicillium* sp. MST-MF667. Bilaid C is an isomer of bilaid A with terminal L-phenylalanine and D-tyrosines inverted to their D and L-isomers. Bilaid C exhibited very weak  $\mu$ -opioid agonist and the class formed the foundation for the design of more potent analogues, bilorphin and bilactorphin. The bioassay profile of bilaid C has not been extensively investigated.

## References

1. A tetrapeptide class of biased analgesics from an Australian fungus targets the  $\mu$ -opioid receptor. Dekan Z. et al. Proc Nat Acad Sci. 2019, 116, 22535.