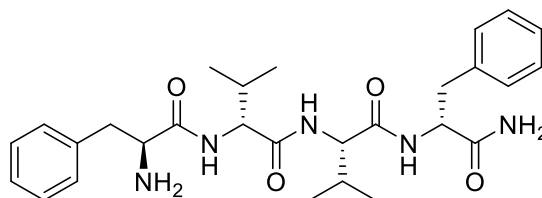


## Bilaid A1

Code No.: **BIA-B2275**

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



Synonyms :

## Specifications

CAS #	: 2393866-02-7
Molecular Formula	: <b>C<sub>28</sub>H<sub>39</sub>N<sub>5</sub>O<sub>4</sub></b>
Molecular Weight	: <b>509.7</b>
Source	: <b>Semi-synthetic</b>
Appearance	: <b>White solid</b>
Purity	: <b>&gt;95% by HPLC</b>
Long Term Storage	: <b>-20°C</b>
Solubility	: <b>Soluble in methanol or DMSO</b>

## Application Notes

Bilaid A1 (FvVf-NH<sub>2</sub>) is the semi-synthetic analogue of Bilaid A, an unusual tetrapeptide isolated from an Australian estuarine isolate of *Penicillium* sp. MST-MF667. Conversion of the terminal carboxylate to its corresponding amide enhanced the  $\mu$ -opioid agonist potency leading to the design of more potent analogues, bilorphin and bilactorphin.

## 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.