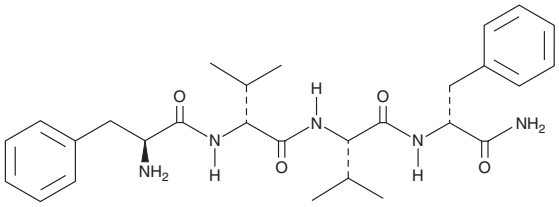
PRODUCT INFORMATION

Bilaid A1

Item No. 31243

CAS Registry No.:	2393866-02-7
Formal Name:	L-phenylalanyl-D-valyl-L-valyl-D-phenylalaninamide
Synonyms:	H-FVVF-NH_2, H-L-Phe-D-Val-L-Val-D-Phe-NH_2
MF:	$C_{28}H_{39}N_5O_4$
FW:	509.6
Purity:	≥95%
Supplied as:	A solid
Storage:	-20°C
Stability:	≥4 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

Bilaid A1 is supplied as a solid. A stock solution may be made by dissolving the bilaid A1 in the solvent of choice, which should be purged with an inert gas. Bilaid A1 is sparingly soluble (1-10 mg/ml) in DMSO and methanol and slightly soluble (0.1-1 mg/ml) in acetonitrile.

Description

Bilaid A1 is a tetrapeptide agonist of the μ-opioid receptor (K_i = 750 nM in HEK293 cell membranes expressing the human receptor) and a derivative of bilaid A (Item No. 31242).[1] It inhibits forskolin-induced cAMP accumulation by 47% in HEK293 cells expressing the human μ-opioid receptor when used at a concentration of 10 μM.

Reference

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).

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