



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

Weitere Information auf den folgenden Seiten!  
See the following pages for more information!



### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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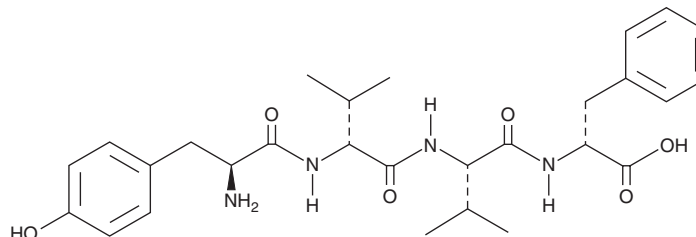
# PRODUCT INFORMATION



## Bilaid C

Item No. 31246

**CAS Registry No.:** 2393866-13-0  
**Formal Name:** L-tyrosyl-D-valyl-L-valyl-D-phenylalanine  
**Synonyms:** H-L-Tyr-D-Val-L-Val-D-Phe, H-YVVF  
**MF:** C<sub>28</sub>H<sub>38</sub>N<sub>4</sub>O<sub>6</sub>  
**FW:** 526.6  
**Purity:** ≥95%  
**Supplied as:** A solid  
**Storage:** -20°C  
**Stability:** ≥2 years  
**Item Origin:** Fungi/*Penicillium* sp.



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

### Laboratory Procedures

Bilaid C is supplied as a solid. A stock solution may be made by dissolving the bilaid C in the solvent of choice, which should be purged with an inert gas. Bilaid C is soluble in methanol and DMSO.

### 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 *Penicillium*.<sup>1</sup> 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 ( $K_{ir}$ ) currents in rat locus coeruleus slices that endogenously express high levels of the  $\mu$ -opioid receptor ( $EC_{50} = 4.2$   $\mu$ M).

### Reference

1. 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).

#### WARNING

THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

#### SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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