

PRODUCT INFORMATION



BLP-3 (trifluoroacetate salt)

Item No. 36957

Formal Name: glycyl-L-isoleucylglycyl-L-alanyl-L-alanyl-L-isoleucyl-L-leucyl-L-seryl-L-alanylglycyl-L-lysyl-L-seryl-L-alanyl-L-leucyl-L-lysylglycyl-L-leucyl-L-alanyl-L-lysylglycyl-L-leucyl-L-alanyl-L- α -glutamyl-L-histidyl-L-phenylalaninamide, trifluoroacetate salt

Synonym: Bombinin-like Peptide 3

Peptide Sequence: GIGAAILSAGKSALKGLAKGLAEHF-NH₂

MF: C₁₀₈H₁₈₃N₃₁O₂₉ • XCF₃COOH

FW: 2,379.8

Purity: ≥98%

Supplied as: A solid

Storage: -20°C

Stability: ≥4 years

H—Gly—Ile—Gly—Ala—Ala—Ile—Leu—Ser—Ala—Gly—
Lys—Ser—Ala—Leu—Lys—Gly—Leu—Ala—Lys—Gly—
Leu—Ala—Glu—His—Phe—NH₂

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

Laboratory Procedures

BLP-3 (trifluoroacetate salt) is supplied as a solid. A stock solution may be made by dissolving the BLP-3 (trifluoroacetate salt) in the solvent of choice, which should be purged with an inert gas. BLP-3 (trifluoroacetate salt) is soluble in 20% acetonitrile/water.

Description

BLP-3 is an endogenous peptide expressed in *B. oreintalis* skin and has antibacterial properties.¹ It is active against *N. meningitidis*, *N. gonorrhoeae*, *N. lactamica*, and *N. cinerea* when used at a concentration of 20 µg/ml. BLP-3 folds into an alpha-helix, which inserts into and disrupts bacteriomimetic membranes.²

References

1. Gibson, B.W., Tang, D.Z., Mandrell, R., *et al.* Bombinin-like peptides with antimicrobial activity from skin secretions of the Asian toad, *Bombina orientalis*. *J. Biol. Chem.* **266**(34), 23103-23111 (1991).
2. AnnaVal, T., Ramos-Martín, F., Herrera-León, C., *et al.* Antimicrobial bombinin-like peptide 3 selectively recognizes and inserts into bacterial biomimetic bilayers in multiple steps. *J. Med. Chem.* **64**(8), 5185-5197 (2021).

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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