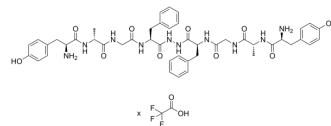


Biphalin TFA

Cat. No.:	HY-P3223
CAS No.:	126872-95-5
Molecular Formula:	$C_{46}H_{56}N_{10}O_{10} \cdot xC_2HF_3O_2$
Sequence:	(Tyr-[D-Ala]-Gly-Phe-NH) ₂
Sequence Shortening:	(Y-[D-Ala]-GF-NH) ₂
Target:	Opioid Receptor
Pathway:	GPCR/G Protein; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

Biphalin TFA, a BBB-penetrable opioid peptide analog, contains two active enkephalin pharmacophores. Biphalin TFA has high affinity for opioid receptors. Biphalin TFA shows analgesic effect in acute, neuropathic, and chronic animal pain models. Biphalin TFA is also an antiviral, antiproliferative, anti-inflammatory, and neuroprotective agent^[1].

REFERENCES

[1]. T J Abbruscato, et al. Blood-to-central nervous system entry and stability of biphalin, a unique double-enkephalin analog, and its halogenated derivatives. J Pharmacol Exp Ther. 1996, 276,3.

[2]. Redkiewicz P, et al. Biphalin-A Potent Opioid Agonist-As a Panacea for Opioid System-Dependent Pathophysiological Diseases? Int J Mol Sci. 2021 Oct 21;22(21):11347.

Caution: Product has not been fully validated for medical applications. For research use only.

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