

UFP-101

Cat. No.:	HY-P1299
CAS No.:	849024-68-6
Molecular Formula:	C ₈₂ H ₁₃₈ N ₃₂ O ₂₁
Molecular Weight:	1908.17
Sequence Shortening:	Bn-GGGFTGARKSARKRKNQ-NH2
Target:	Opioid Receptor
Pathway:	GPCR/G Protein; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the COA.

BIOLOGICAL ACTIVITY

Description	UFP-101 is a potent, selective, and competitive antagonist of the NOP receptor , with a pK_i of 10.24. UFP-101 displays >3000-fold selectivity over δ , μ and κ opioid receptors. UFP-101 shows antidepressant-like effect ^{[1][2]} .
In Vivo	UFP-101 elicits a pronounced acute and dosedependent antidepressant-like effect in mice submitted to the forced swimming test (FST) ^[1] .

REFERENCES

- [1]. Calo G, et al. [Nphe1,Arg14,Lys15]nociceptin-NH2, a novel potent and selective antagonist of the nociceptin/orphanin FQ receptor. Br J Pharmacol. 2002;136(2):303-311.
- [2]. Gavioli EC, et al. Blockade of nociceptin/orphanin FQ-NOP receptor signalling produces antidepressant-like effects: pharmacological and genetic evidences from the mouse forced swimming test. Eur J Neurosci. 2003;17(9):1987-1990.

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

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