

Ac-RYYRWK-NH2 TFA

Cat. No.:	HY-P1316A
CAS No.:	408305-09-9
Molecular Formula:	C ₅₁ H ₇₀ F ₃ N ₁₅ O ₁₁
Molecular Weight:	1126.19
Sequence Shortening:	Ac-RYYRWK-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	Ac-RYYRWK-NH2 is a potent and selective partial agonist for the nociceptin receptor (NOP) , [³ H]Ac-RYYRWK-NH2 binds to rat cortical membranes ORL1 with a K _d of 0.071 nM, but has no affinity for μ-, κ- or δ-opioid receptors ^[1] .
In Vitro	[³ H]ac-RYYRWK-NH2 binding to rat cortical membranes revealed a single high affinity site for [³ H]ac-RYYRWK-NH2 (K _d =0.071 nM) ^[1] . Naloxone benzoylhydrazone displaced [³ H]acRYYRWK-NH2 binding to rat cortical membranes (K _i =104 nM) and human ORL1 (K _i =136 nM) as well as [¹²⁵ I]Tyr14-NC-OH to ORL1 (K _i =37 nM) has no affinity for μ-, κ- or δ-opioid receptors ^[1] .

REFERENCES

- [1]. C T Dooley, et al. Binding and in vitro activities of peptides with high affinity for the nociceptin/orphanin FQ receptor, ORL1. *J Pharmacol Exp Ther.* 1997 Nov;283(2):735-41.
- [2]. M Ho, et al, Characterization of the ORL(1) receptor on adrenergic nerves in the rat anococcygeus muscle. *Br J Pharmacol.* 2000 Sep;131(2):349-55.

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

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