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SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

[Arg14,Lys15]Nociceptin

Cat. No.:	HY-P1301
CAS No.:	236098-40-1
Molecular Formula:	C ₈₂ H ₁₃₇ N ₃₁ O ₂₂
Molecular Weight:	1909.16
Sequence Shortening:	FGGFTGARKSARKRKNQ
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	[Arg14,Lys15]Nociceptin is a highly potent and selective NOP receptor (ORL1; OP4) agonist, with an EC ₅₀ of 1 nM. [Arg14,Lys15]Nociceptin displays high selectivity over opioid receptors, with IC ₅₀ s of 0.32, 280, >10000 and 1500 nM for NOP, μ, δ and κ receptors, respectively ^[1] .
In Vitro	[Arg14,Lys15]Nociceptin is about 30-fold more potent than Nociceptin (NC) and produces longer lasting effects ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	In in vivo experiments, [Arg14,Lys15]Nociceptin mimics the effects of NC, producing, after intracerebroventricular administration, pronociceptive effects in the tail-withdrawal assay and inhibiting the locomotor activity of the mice ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. Okada K, Sujaku T, Chuman Y, et al. Highly potent nociceptin analog containing the Arg-Lys triple repeat. Biochem Biophys Res Commun. 2000;278(2):493-498.
- [2]. Rizzi D, Rizzi A, Bigoni R, et al. [Arg(14),Lys(15)]nociceptin, a highly potent agonist of the nociceptin/orphanin FQ receptor: in vitro and in vivo studies. J Pharmacol Exp Ther. 2002;300(1):57-63.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA