Ac-RYYRIK-NH2

Cat. No.:	HY-P1318
CAS No.:	200959-48-4
Molecular Formula:	$C_{44}H_{70}N_{14}O_9$
Molecular Weight:	939.11
Sequence Shortening:	Ac-RYYRIK-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-RYYRIK-NH2 is a potent and partial agonist on **ORL1** transfected in CHO cells (K_d=1.5 nM) and behaves as a endogenous ligand of ORL1. Ac-RYYRIK-NH2 is a specific antagonist for the activation of G protein and competitively antagonizes the stimulation of [^{35}S]-GTPgS binding to G proteins by nociceptin/orphanin FQ (noc/OFQ) in membranes and sections of rat brain[1].
IC_{50} & Target	Kd: 1.5 nM (ORL1 transfected in CHO cells)[1]
In Vivo	Ac-RYYRIK-NH2 (intracerebroventricularly (i.c.v.) inhibits spontaneous locomotor activity in mice with an ID_{50} of 0.07 nmol. Co-administration of noc/OFQ and Ac-RYYRIK-NH2 lead to additive effects in Male Swiss mice[1].

REFERENCES

[1]. H Berger, et al. Antagonism by acetyl-RYYRIK-NH2 of G protein activation in rat brain preparations and of chronotropic effect on rat cardiomyocytes evoked by nociceptin/orphanin FQ. Br J Pharmacol. 1999 Feb;126(3):555-8.

[2]. H Berger, et al. The nociceptin/orphanin FQ receptor ligand acetyl-RYYRIK-amide exhibits antagonistic and agonistic properties.Peptides. 2000 Jul;21(7):1131-9.

[3]. 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.

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