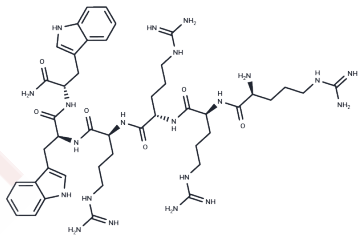
Data Sheet (Cat.No.TP1934)

TargetMol

L-R4W2

Chemical Properties



CAS No. : 206350-79-0

Formula: C46H71N21O6

Molecular Weight: 1014.2

Storage: Keep away from moisture
Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

Biological Description

Description	Vanilloid TRPV1 (VR1) receptor antagonist peptide (IC50 ~ 0.1 μM); blocks Ca2+ currents in dorsal root ganglion neurons. Analgesic in vivo.
Targets(IC50)	TRP/TRPV Channel

Solubility Information

Solubility	H2O: 1 mg/mL (0.99 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.986 mL	4.930 mL	9.860 mL
5 mM	0.1972 mL	0.986 mL	1.972 mL
10 mM	0.0986 mL	0.493 mL	0.986 mL
50 mM	0.0197 mL	0.0986 mL	0.1972 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Himmel et al (2002) The arginine-rich hexapeptide R4W2 is a stereoselective antagonist at the vanilloid receptor 1: a Ca2+ imaging study in adult rat dorsal root ganglion neurons. J.Pharmacol.Exp.Ther. 301 981 PMID:
Planells-Cases et al (2000) Arginine-rich peptides are blockers of VR-1 channels with analgesic activity. FEBS Lett. 481 131 PMID:

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