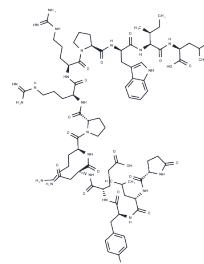


[D-Trp11]-Neurotensin

Chemical Properties

CAS No. :	73634-68-1
Formula:	C80H122N22O19
Molecular Weight:	1695.991
Storage:	Keep away from moisture Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	[D-Trp11]-Neurotensin is a compound that functions as a selective antagonist of Neurotensin (NT) in perfused rat hearts, while exhibiting full agonist properties in guinea pig atria and rat stomach strips. Additionally, this compound can inhibit hypotension induced by NT.
Targets(IC50)	Neurotensin Receptor
In vitro	[D-Trp11]-Neurotensin significantly reduces neurotensin (NT)-induced coronary vessel constriction in perfused rat hearts at concentrations ranging from 0.13 to 1.1 μM . Additionally, at higher concentrations (2-110 μM), [D-Trp11]-Neurotensin demonstrates neurotensin-like activity in the same experimental setup[1].
In vivo	[D-Trp11]-Neurotensin administered intravenously at doses ranging from 50 to 500 nmol/kg induces hypotensive effects in rats anesthetized with pentobarbital, exhibiting an effective dose (ED 25) of 122 nmol/kg.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.5896 mL	2.9481 mL	5.8963 mL
5 mM	0.1179 mL	0.5896 mL	1.1793 mL
10 mM	0.059 mL	0.2948 mL	0.5896 mL
50 mM	0.0118 mL	0.059 mL	0.1179 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

Quirion R, et, al. Selective blockade of neurotensin-induced coronary vessel constriction in perfused rat hearts by a neurotensin analogue. *Eur J Pharmacol.* 1980 Feb 8;61(3):309-12.

Quirion R, et, al. Hypotensive effects of centrally and peripherally administered neurotensin and neurotensin derivatives in rats. *Neuropeptides.* 1981 Jun; 1(4): 253-9.

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