Data Sheet (Cat.No.T78021)

TargetMol

Oxytocin parallel dimer TFA

Chemical Properties

CAS No. :

Formula: C88H133F3N24O26S4

Molecular Weight: 2128.4

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	Oxytocin Parallel Dimer TFA, a disulfide-bridged homopeptide dimer, exhibits both oxytocin and vasopressin-like activity while being less toxic than oxytocin [1] [2].
Targets(IC50)	Oxytocin Receptor
In vitro	The biological activity of parallel and antiparallel, homodimer/heterodimer of oxytocin and deamino-oxytocin with disulfide bridges ranges from 0.2% to 6% of that of oxytocin [1].
In vivo	Oxytocin dimer administered intravenously as a single dose demonstrates lower acute toxicity in rats compared to oxytocin (LD50 = 43 mg/kg versus 25 mg/kg) [2].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.4698 mL	2.3492 mL	4.6984 mL
5 mM	0.094 mL	0.4698 mL	0.9397 mL
10 mM	0.047 mL	0.2349 mL	0.4698 mL
50 mM	0.0094 mL	0.047 mL	0.094 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.

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