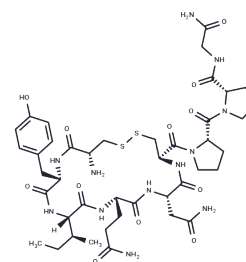


## Pro8-Oxytocin

## Chemical Properties

CAS No. :	24327-19-3
Formula:	C42H62N12O12S2
Molecular Weight:	991.14
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	Pro8-Oxytocin, a modified oxytocin (OXT) ligand, elicits more potent and efficacious responses at primate OXTR and induces stronger behavioral effects compared to the standard mammalian OXT ligand (Leu8-Oxytocin). It demonstrates lower efficacy than Vasopressin (AVP) at human AVPR1a, yet shows a higher efficacious response at marmoset AVPR1a [1].
Targets(IC50)	Oxytocin Receptor
In vitro	Pro8-Oxytocin, at concentrations ranging from 1 nM to 10 μM, is capable of inducing calcium mobilization in CHO cells expressing the AVPR1a receptor [1].
In vivo	Pro8-Oxytocin exhibits higher binding affinity for the primate oxytocin receptor (OXTR) than Leu8-Oxytocin, particularly in primates expressing Pro8-OXT and Leu8-OXT, resulting in a more potent calcium signaling response [1].

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.0089 mL	5.0447 mL	10.0894 mL
5 mM	0.2018 mL	1.0089 mL	2.0179 mL
10 mM	0.1009 mL	0.5045 mL	1.0089 mL
50 mM	0.0202 mL	0.1009 mL	0.2018 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.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481