Product Data Sheet

Product Name: OT antagonist 1
Cat. No.: GC32425

Chemical Properties

Cas. No.	479080-38-1		
SMILES	CC1=NOC([C@@H](N(C(C2=CC=C(C3=CC=CC=C3C)C=C2)=O)C/4)CC4=N/OC)=N1		
Formula	$C_{22}H_{22}N_4O_3$	M.Wt	390.44
Solubility	Soluble in DMSO	Storage	Store at -20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 ℃ and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20℃ for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		
Structure	OT antagonist 1		

Background

OT antagonist 1 (Compound 4) is a potent, selective Oxytocin antagonist with a Ki of 50 nM.

Oxytocin (OT) is a nonapeptide hormone that acts on the OT receptor, a seven-transmembrane (7TM) (Gq-coupled) receptor. The OT receptor has no subtypes but is related to the vasopressin receptors V1A, V1B and V2. OT antagonists have therapeutic potential in a number of areas including pre-term labour: Benign Prostatic Hyperplasia and sexual dysfunction. As a result there is significant interest in the identification of potent, selective, orally bioavailable OT antagonists[1].

[1]. Brown A, et al. Design and optimization of potent, selective antagonists of Oxytocin. Bioorg Med Chem Lett. 2008 Aug 1;18(15):4278-81.

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