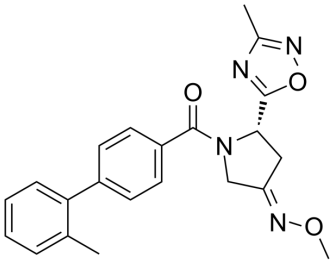
OT antagonist 1

Cat. No.:	HY-103650
CAS No.:	479080-38-1
Molecular Formula:	$C_{22}H_{22}N_4O_3$
Molecular Weight:	390.44
Target:	Oxytocin Receptor
Pathway:	GPCR/G Protein
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	OT antagonist 1 (Compound 4) is a potent, selective Oxytocin antagonist with a K_i of 50 nM.
IC_{50} & Target	Ki: 50 nM (Oxytocin)[1]
In Vitro	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 V_{1A}, V_{1B} and V_2. 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]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[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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