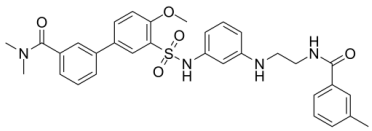
Data Sheet

Product Name:	Orexin 2 Receptor Agonist
Cat. No.:	CS-5456
CAS No.:	1796565-52-0
Molecular Formula:	C32H34N4O5S
Molecular Weight:	586.70
Target:	Orexin Receptor (OX Receptor)
Pathway:	GPCR/G Protein; Neuronal Signaling
Solubility:	DMSO : ≥ 32 mg/mL (54.54 mM)



BIOLOGICAL ACTIVITY:

Orexin 2 Receptor Agonist is a potent (EC50 on OX2R is 23 nM) and OX2R-selective (OX1R/OX2R EC50 ratio is 70) agonist. IC50 value: 23 nM (EC50) Target: Orexin 2 Receptor Orexin 2 Receptor Agonist shows not only potent activity but also high selectivity for OX2R over OX1R. In CHO cells overexpressing hOX1R and HEK-293 cells overexpressing hOX2R, compound 26 displaced [125I]orexin-A in a concentration dependent manner: 26 bound to hOX2R and hOX1R with Ki of 0.14 and 0.77 μM, respectively.[1]

References:

[1]. Nagahara T, et al. Design and Synthesis of Non-Peptide, Selective Orexin Receptor 2 Agonists. J Med Chem. 2015 Oct 22;58(20):7931-7.

CAIndexNames:

[1,1'-Biphenyl]-3-carboxamide, 4'-methoxy-N,N-dimethyl-3'-[[[3-[[2-[(3-methylbenzoyl)amino]ethyl]amino]phenyl]amino]sulfonyl]-

SMILES:

O=C(C1=CC=CC(C)=C1)NCCNC2=CC(NS(C3=C(OC)C=CC(C4=CC(C(N(C)C)=O)=CC=C4)=C3)(=O)=O)=CC=C2

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 732-484-9848 Fax: 888-484-5008 E-mail: sales@ChemScene.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA