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Produktinformation



Forschungsprodukte & Biochemikalien



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Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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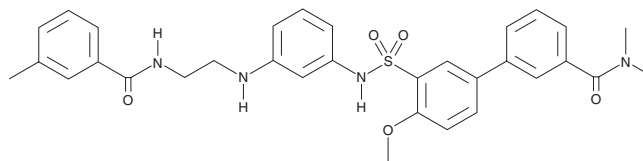
PRODUCT INFORMATION



Orexin 2 Receptor Agonist

Item No. 22937

CAS Registry No.: 1796565-52-0
Formal Name: 4'-methoxy-N,N-dimethyl-3'-[[[3'-[[2'-[[3-methylbenzoyl]amino]ethyl]amino]phenyl]amino]sulfonyl]-[1,1'-biphenyl]-3-carboxamide
Synonym: OX2R
MF: C₃₂H₃₄N₄O₅S
FW: 586.7
Purity: ≥98%
UV/Vis.: λ_{max}: 210, 252 nm
Supplied as: A crystalline solid
Storage: -20°C
Stability: ≥2 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

Orexin 2 receptor agonist is supplied as a crystalline solid. A stock solution may be made by dissolving the orexin 2 receptor agonist in the solvent of choice. Orexin 2 receptor agonist is soluble in organic solvents such as DMSO and dimethyl formamide (DMF), which should be purged with an inert gas. The solubility of orexin 2 receptor agonist in these solvents is approximately 20 and 25 mg/ml, respectively.

Orexin 2 receptor agonist is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, orexin 2 receptor agonist should first be dissolved in DMF and then diluted with the aqueous buffer of choice. Orexin 2 receptor agonist has a solubility of approximately 0.16 mg/ml in a 1:5 solution of DMF:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Description

Orexin 2 receptor agonist is an agonist of the orexin 2 receptor (OX2R) with an EC₅₀ value of 23 nM in a calcium influx assay.¹ It is 70-fold selective for OX2R over OX1R (EC₅₀ = 1,616 nM).

Reference

1. Nagahara, T., Saitoh, T., Kutsumura, N., *et al.* Design and synthesis of non-peptide, selective orexin receptor 2 agonists. *J. Med. Chem.* **58**(20), 7931-7937 (2015).

WARNING

THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

WARRANTY AND LIMITATION OF REMEDY

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