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Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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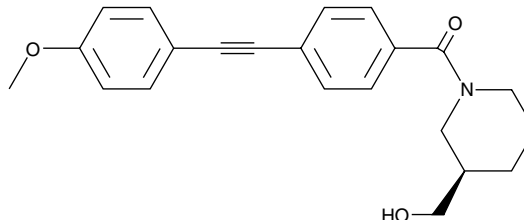
Product Information



ML-289

Item No. 15195

CAS Registry No.: 1382481-79-9
Formal Name: [3R-(hydroxymethyl)-1-piperidinyl]
[4-[2-(4-methoxyphenyl)ethynyl]
phenyl]-methanone
Synonym: VU0463597
MF: C₂₂H₂₃NO₃
FW: 349.4
Purity: ≥98%
Stability: ≥2 years at -20°C
Supplied as: A crystalline solid
UV/Vis.: λ_{max}: 303 nm



Laboratory Procedures

For long term storage, we suggest that ML-289 be stored as supplied at -20°C. It should be stable for at least two years.

ML-289 is supplied as a crystalline solid. A stock solution may be made by dissolving the ML-289 in the solvent of choice. ML-289 is soluble in DMSO at a concentration of approximately 10 mg/ml.

Glutamate, the major excitatory neurotransmitter in the CNS, activates eight known subtypes of metabotropic glutamate receptors (mGluRs). Highly selective modulators designed to act at allosteric sites within the receptor are being developed to preferentially target individual mGluR subtypes in order to determine their distinct pharmacological roles. ML-289 is a negative allosteric modulator of mGlu3 (IC₅₀ = 0.66 μM) that displays 15-fold selectivity over mGlu2 and inactivity against mGlu5.¹

Reference

1. Sheffler, D.J., Wenthur, C.J., Bruner, J.A., *et al.* Development of a novel, CNS-penetrant, metabotropic glutamate receptor 3 (mGlu₃) NAM probe (ML289) derived from a closely related mGlu₅ PAM. *Bioorg. Med. Chem. Lett.* **22(12)**, 3921-3925 (2012).

Related Products

For a list of related products please visit: www.caymanchem.com/catalog/15195

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WARNING: THIS PRODUCT IS FOR LABORATORY RESEARCH ONLY: NOT FOR ADMINISTRATION TO HUMANS. NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA

This material should be considered hazardous until information to the contrary becomes available. Do not ingest, swallow, or inhale. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. This information contains some, but not all, of the information required for the safe and proper use of this material. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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Cayman Chemical Company makes **no warranty or guarantee** of any kind, whether written or oral, expressed or implied, including without limitation, any warranty of fitness for a particular purpose, suitability and merchantability, which extends beyond the description of the chemicals hereof. Cayman **warrants only** to the original customer that the material will **meet our specifications at the time of delivery**.

Cayman will carry out its delivery obligations with due care and skill. Thus, in no event will Cayman have **any obligation or liability**, whether in tort (including negligence) or in contract, for any direct, indirect, incidental or consequential damages, even if Cayman is informed about their possible existence.

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Said refund or replacement is conditioned on Buyer giving written notice to Cayman within thirty (30) days after arrival of the material at its destination. Failure of Buyer to give said notice within thirty (30) days shall constitute a waiver by Buyer of all claims hereunder with respect to said material.

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