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DATASHEET

ML 289

Product overview

Name	ML 289
Cat No	HB0414
Biological action	NAM
Purity	>98%
Description	Selective mGlu ₃ negative allosteric modulator

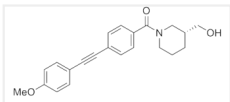
Biological Data

Biological description	Selective mGlu ₃ receptor negative allosteric modulator (IC ₅₀ = 0.66 μM). Displays 15-fold selectivity over mGlu ₂ receptor and is inactive against mGlu ₅ receptor. Blood-brain barrier permeable.
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Solubility & Handling

Storage instructions	+4 °C
Solubility overview	Soluble in DMSO (100mM) or ethanol (50mM)
Important	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

Chemical Data

Chemical name	[(3 <i>R</i>)-3-(Hydroxymethyl)-1-piperidinyl]-1-[4-[2-(4-methoxyphenyl)ethynyl]phenyl]methanone
Molecular Weight	349.42
Chemical structure	
Molecular Formula	C ₂₂ H ₂₃ NO ₃
CAS Number	1382481-79-9
PubChem identifier	56587994
SMILES	O=C(N3CCC[C@@H](CO)C3)C(C=C2)=CC=C2C#CC1=CC=C(OC)C=C1
InChiKey	VSLWUPHHCFQTDB-LJQANCHMSA-N

References

Development of a novel, CNS-penetrant, metabotropic glutamate receptor 3 (mGlu3) NAM probe (ML289) derived from a closely related mGlu5 PAM.

Sheffler DJ *et al* (2012) Bioorg Med Chem Lett 22(12)

PubMedID [22607673](#)