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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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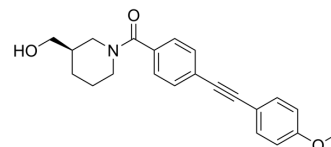
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ML289

Cat. No.:	HY-19630
CAS No.:	1382481-79-9
Molecular Formula:	C ₂₂ H ₂₃ NO ₃
Molecular Weight:	349.42
Target:	mGluR
Pathway:	GPCR/G Protein; Neuronal Signaling
Storage:	Powder -20°C 3 years 4°C 2 years In solvent -80°C 6 months -20°C 1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 250 mg/mL (715.47 mM; Need ultrasonic)				
	Preparing Stock Solutions	Solvent Concentration Mass	1 mg	5 mg	10 mg
		1 mM	2.8619 mL	14.3094 mL	28.6189 mL
		5 mM	0.5724 mL	2.8619 mL	5.7238 mL
		10 mM	0.2862 mL	1.4309 mL	2.8619 mL
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.08 mg/mL (5.95 mM); Clear solution				
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: 2.08 mg/mL (5.95 mM); Suspended solution; Need ultrasonic				
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (5.95 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	ML289 (VU0463597) is a potent, selective, and CNS-penetrant mGlu3 (IC ₅₀ =0.66 μM) negative allosteric modulator. ML289 displays >15-fold selectivity over mGlu2 and is inactive against mGlu5 ^[1] . ML289 is a click chemistry reagent, it contains an Alkyne group and can undergo copper-catalyzed azide-alkyne cycloaddition (CuAAC) with molecules containing Azide groups.
IC ₅₀ & Target	mGluR3 0.66 μM (IC ₅₀)

In Vitro

ML289 (VU0463597) is a CNS-penetrant, metabotropic glutamate receptor 3 (mGlu3) negative allosteric modulator probe^[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Sheffler DJ, 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. 2012;22(12):3921-3925.

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

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