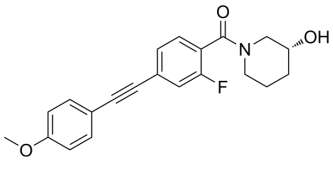
ML337

Cat. No.:	HY-16636
CAS No.:	1443118-44-2
Molecular Formula:	$C_{21}H_{20}FNO_3$
Molecular Weight:	353.39
Target:	mGluR
Pathway:	GPCR/G Protein; Neuronal Signaling
Storage:	Powder -20°C 3 years In solvent -80°C 6 months -20°C 1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 125 mg/mL (353.72 mM; Need ultrasonic)

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	1 mM	2.8297 mL	14.1487 mL	28.2973 mL
	5 mM	0.5659 mL	2.8297 mL	5.6595 mL
	10 mM	0.2830 mL	1.4149 mL	2.8297 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

1. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.08 mg/mL (5.89 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

ML337 is a selective and brain-penetrant negative allosteric modulator of mGlu3, with an IC_{50} of 593 nM. ML337 possesses a favorable dystrophia myotonica protein kinase (DMPK) and ancillary pharmacology profile[1]. ML337 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
593 nM (IC_{50})

In Vitro

ML337 has no activity at mGlu1, 2, 4, 5, 6, 7 and 8 at concentrations up to 30 μM[1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Wenthur CJ, et, al. Discovery of (R)-(2-fluoro-4-((-4-methoxyphenyl)ethynyl)phenyl) (3-hydroxypiperidin-1-yl)methanone (ML337), an mGlu3 selective and CNS penetrant negative allosteric modulator (NAM). J Med Chem. 2013 Jun 27; 56(12): 5208-12.

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