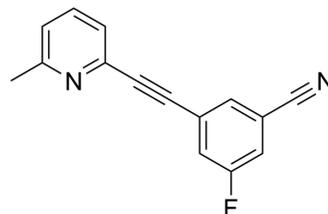


## MFZ 10-7

Cat. No.:	HY-103575		
CAS No.:	1224431-15-5		
Molecular Formula:	C <sub>15</sub> H <sub>9</sub> FN <sub>2</sub>		
Molecular Weight:	236.24		
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 : 17.86 mg/mL (75.60 mM; ultrasonic and warming and heat to 60°C)

Solvent	Mass	Concentration		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	4.2330 mL	21.1649 mL	42.3298 mL
	5 mM	0.8466 mL	4.2330 mL	8.4660 mL
	10 mM	0.4233 mL	2.1165 mL	4.2330 mL

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

### BIOLOGICAL ACTIVITY

#### Description

MFZ 10-7 is a highly potent and selective mGluR5 NAM (negative allosteric modulator), with a K<sub>i</sub> of 0.67 nM for rat mGluR5<sup>[1]</sup>. MFZ 10-7 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<sub>50</sub> & Target

rat mGluR5  
0.67 nM (K<sub>i</sub>)

#### In Vitro

MFZ 10-7 has approximately 1150- and 3000-fold lower affinity for MAO-B (monoamine oxidase-B enzyme) and TXA2 (thromboxane A2 receptor), respectively, compared to mGluR5<sup>[1]</sup>.  
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

#### In Vivo

MFZ 10-7 can lower oral sucrose self-administration rate but has no effect on total sucrose intake<sup>[1]</sup>.  
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

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## REFERENCES

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[1]. Keck TM, et al. A novel mGluR5 antagonist, MFZ 10-7, inhibits cocaine-taking and cocaine-seeking behavior in rats. *Addict Biol.*

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

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