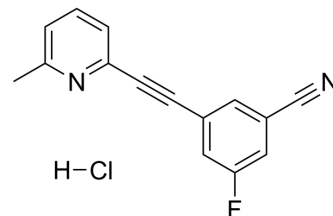


MFZ 10-7 hydrochloride

Cat. No.:	HY-103575A
CAS No.:	1779796-36-9
Molecular Formula:	C ₁₅ H ₁₀ ClFN ₂
Molecular Weight:	272.7
Target:	mGluR
Pathway:	GPCR/G Protein; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	MFZ 10-7 hydrochloride is a highly potent and selective mGluR5 NAM (negative allosteric modulator), with a K _i of 0.67 nM for rat mGluR5 ^[1] . MFZ 10-7 (hydrochloride) is a click chemistry reagent, it contains an Alkyne group and can undergo copper-catalyzed azide-alkyne cycloaddition (CuAAC) with molecules containing Azide groups.
IC₅₀ & Target	rat mGluR5 0.67 nM (K _i)
In Vitro	MFZ 10-7 hydrochloride has approximately 1150- and 3000-fold lower affinity for MAO-B (monoamine oxidase-B enzyme) and TXA2 (thromboxane A2 receptor), respectively, compared to mGluR5 ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	MFZ 10-7 hydrochloride can lower oral sucrose self-administration rate but has no effect on total sucrose intake ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Thomas M Keck, et al. A Novel mGluR5 Antagonist, MFZ 10-7, Inhibits Cocaine-Taking and Cocaine-Seeking Behavior in Rats. *Addict Biol.* 2014 Mar;19(2):195-209.

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

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