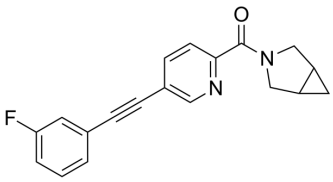
ML353

Cat. No.:	HY-124984		
Molecular Formula:	$C_{19}H_{15}FN_2O$		
Molecular Weight:	306.33		
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



BIOLOGICAL ACTIVITY

Description	ML353 is a selective ligand of mGlu5 silent allosteric modulator (SAM) with an K_i value of 18.2 nM. ML353 improves the affinity of common allosteric sites, 20-fold higher than the previous mGlu5 SAM tool compound 5mpep. ML353 has potential applications in solving the intrinsic activity of SAM in vivo or as a agent blocker[1]. ML353 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	$mGlu_5$ 18.2 nM (Ki)
In Vitro	ML353 is a fully soluble compound with a solubility of 16.9 μM or 6.0 μg/mL in PBS (PH=7.4)[1]. ML353 has excellent stability in PBS buffer[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Gregory KJ, et al. Identification of a high affinity MPEP-site silent allosteric modulator (SAM) for the metabotropic glutamate subtype 5 receptor (mGlu5). 2013 Apr 15 [updated 2015 Feb 11]. In: Probe Reports from the NIH Molecular Libraries Program [Internet]. Bethesda (MD): National Center for Biotechnology Information (US); 2010–.

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