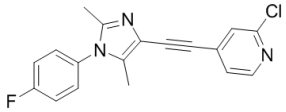
Product Name	:	Basimglurant
Synonyms	:	RG7090
Cat No.	:	M22362
CAS Number	:	802906-73-6
Molecular Formula	:	C18H13ClFN3
Formula Weight	:	325.77
Chemical Name	:	——
Description	:	Basimglurant is a potent, selective and orally available modulator of mGlu5 negative allosteric(Kd of 1.1 nM). In competition binding experiments on human recombinant mGlu5, Basimglurant (RG7090) fully displaces [3H]-MPEP with a Ki of 35.6 nM and [3H]-ABP688 with a Ki of 1.4 nM. In HEK293 cells stably expressing human mGlu5, Basimglurant (RG7090) inhibits quisqualate induced Ca2+ mobilization with an IC50 of 7.0 nM and [3H]-inositolphosphate accumulation (IC50 of 5.9 nM). Basimglurant shows similar potencies in radioligand binding and functional assay on human and rodent mGlu5 receptor orthologues[1].Basimglurant is selective and safe inhibitor of mGlu5 with good oral bioavailability and long half-life supportive of once-daily administration, good brain penetration, and high in vivo potency. Basimglurant has antidepressant properties which are corroborated by its functional magnetic imaging (fMRI) profile, as well as anxiolytic-like and antinociceptive features.
Pathway	:	Neuroscience
Target	:	GluR
Receptor	:	mGlu5
Solubility	:	DMSO:33.33 mg/mL (102.31 mM)
SMILES	:	CC1=C(C#CC2=CC(Cl)=NC=C2)N=C(C)N1C3=CC=C(F)C=C3
Storage	:	(-20℃)
Stability	:	≥ 2 years
Reference	:	



1. Lindemann L, et al. Pharmacology of basimglurant (RO4917523, RG7090), a unique metabotropic glutamate receptor 5 negative allosteric modulator in clinical development for depression. J Pharmacol Exp Ther. 2015 Apr;353(1):213-33.