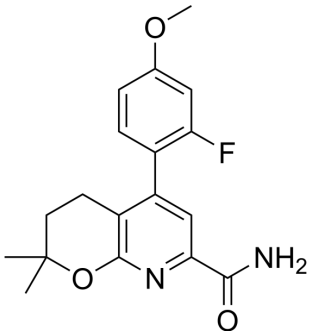
mG2N001

Cat. No.:	HY-157998
CAS No.:	2760515-88-4
Molecular Formula:	$C_{18}H_{19}FN_2O_3$
Molecular Weight:	330.35
Target:	Src; mGluR
Pathway:	Protein Tyrosine Kinase/RTK; GPCR/G Protein; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	mG2N001 is a negative allosteric modulator (NAM) (IC_{50}: 93 nM) of the metabotropic glutamate receptor mGluR2 and binds to mGluR2 as an antagonist (Ki: 63 nM). mG2N001 is microparticle- and plasma-stable, and its radioisotope $^{[11C]}$mG2N001 can be used in PET imaging. $^{[11C]}$mG2N001 has good brain heterogeneity and brain penetration, and can selectively accumulate in mGluR2-rich regions, producing high-contrast brain images[1].
In Vivo	mG2N001 (63.0-87.3 MBq $^{[11C]}$mG2N001, iv.) can perform PET imaging experiments in rats and cynomolgus monkeys, showing the specific binding activity of mGluR2, clearly showing the binding activity of mGluR2 in the animal brain Biological distribution map[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Yuan G, et al. Synthesis and Characterization of 5-(2-Fluoro-4-[11C]methoxyphenyl)-2,2-dimethyl-3,4-dihydro-2H-pyrano[2,3-b]pyridine-7-carboxamide as a PET Imaging Ligand for Metabotropic Glutamate Receptor 2. J Med Chem. 2022 Feb 10;65(3):2593-2609.

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