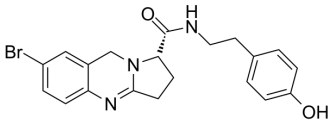
NMDAR antagonist 1

Cat. No.:	HY-111500A
CAS No.:	2220162-06-9
Molecular Formula:	$C_{20}H_{20}BrN_3O_2$
Molecular Weight:	414.3
Target:	iGluR
Pathway:	Membrane Transporter/Ion Channel; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	NMDAR antagonist 1 is a potent and orally bioavailable NR2B-selective NMDAR antagonist[1].
IC_{50} & Target	NMDAR[1]
In Vitro	NMDAR antagonist 1 (Compound 5q) exhibits excellent neuroprotective activity[1]. NMDAR antagonist 1 can attenuate Ca^{2+} influx induced by NMDA[1]. NMDAR antagonist 1 can suppress the NR2B up-regulation and increase p-ERK1/2 expression[1]. NMDAR antagonist 1 inhibits SH-SY5Y cells with cell viabilities of 75.8%, 80.0%, 84.4%, and 78.6% at 0.1 μM 1 μM 10 μM 100 μM, respectively[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Zhang L, et al. Design, synthesis and bioevaluation of 1,2,3,9-tetrahydropyrrolo[2,1-b]quinazoline-1-carboxylic acid derivatives as potent neuroprotective agents. Eur J Med Chem. 2018 May 10;151:27-38.

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