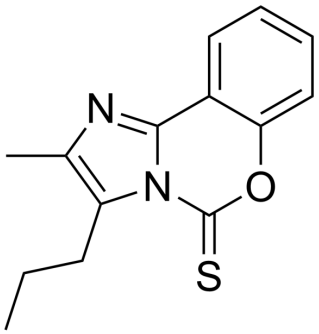
NaV1.2/1.6 channel blocker-1

Cat. No.:	HY-152166
CAS No.:	1199944-04-1
Molecular Formula:	$C_{14}H_{14}N_2OS$
Molecular Weight:	258.34
Target:	Sodium Channel
Pathway:	Membrane Transporter/Ion Channel
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	NaV1.2/1.6 channel blocker-1 is a potent NaV1.2/1.6 channel blocker, with IC_{50}s of 9.8 and 24.4 μM for rNaV1.6 and hNaV1.2, respectively. NaV1.2/1.6 channel blocker-1 can be used for the research of generalized epilepsy[1].	
IC_{50} & Target	rNaV1.6 9.8 μM (IC_{50})	hNaV1.2 24.4 μM (IC_{50})
In Vitro	NaV1.2/1.6 channel blocker-1 (compound 13) (1-100 μM) blocks the NaV1.6 and NaV1.2 sodium currents by 48.5% and 34.0% in HEK 293 stably expressing human NaV1.2 and rat NaV1.6 isoforms, respectively[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.	

REFERENCES

[1]. Rivara M, et, al. Biological Evaluation of Imidazobenzoxazines, Imidazobenzoxazin-5-ones and Imidazobenzoxazin-5-thiones as Sodium Channel Blockers. Letters in Drug Design & Discovery, 2014, 11, 90-97.

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