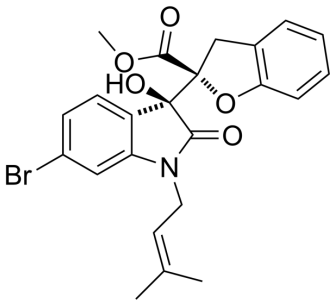
Nav1.7-IN-13

Cat. No.:	HY-162347
Molecular Formula:	$C_{23}H_{22}BrNO_5$
Molecular Weight:	472.33
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	Nav1.7-IN-13 (compound 3g) is a sodium channel inhibitor that significantly inhibits Veratridine (HY-N6691)-induced neuronal activity. Nav1.7-IN-13 inhibits total Na+ current in DRG neurons in a concentration-dependent manner; slows down the activation of Navs. Nav1.7-IN-13 significantly alleviated mechanical pain behavior in a rat model of nerve injury (SNI) and had analgesic activity[1].
IC_{50} & Target	$Na_V1.7$
In Vitro	Nav1.7-IN-13 (compound 3g) blocks the open state in a hyperexcitable state. Nav1.7-IN-13 (50-150 μM; 16 h) dose-dependently inhibits sodium channel activation in rat DRG neurons and does not inhibit hERG channel current at a concentration of 150 μM, which is safe[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Wang Y, et al. Nav1.7 Modulator Bearing a 3-Hydroxyindole Backbone Holds the Potential to Reverse Neuropathic Pain. ACS Chem Neurosci. 2024 Mar 6.

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