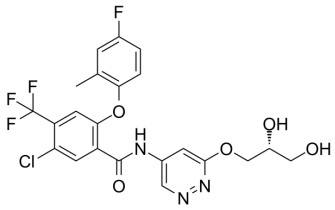
Nav1.8-IN-7

Cat. No.:	HY-160588
CAS No.:	2761181-58-0
Molecular Formula:	$C_{22}H_{18}ClF_4N_3O_5$
Molecular Weight:	515.84
Target:	Sodium Channel; Potassium Channel
Pathway:	Membrane Transporter/Ion Channel
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description

Nav1.8-IN-7 (Example 116) is a selective Nav1.8 inhibitor. Nav1.8-IN-7 shows an inhibition of >50% with 100 nM for Nav1.8. Nav1.8-IN-7 inhibits hERG with an IC_{50} of 15.6 μM. Nav1.8-IN-7 has the potential for pain research[1].

In Vitro

Nav1.8-IN-9 (Example 116; 1 μM) shows inhibitions of 1.2%, 3.7%, <1%, <1%, 2.6%, <1% for Nav1.1, Nav1.3, Nav1.4, Nav1.5, Nav1.6, and Nav1.7, respectively[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

In Vivo

Pharmacokinetic Parameters of Nav1.8-IN-7 in male Sprague-Dawley rats[1].

	PO (100 mg/kg)
C_{max} (ng/mL)	2566
AUC_{0-24} (ng/mL*h)	42454
$t_{1/2}$ (h)	8.7

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Junfeng Ren, et al. A benzylamine or benzyl alcohol derivative and its use. CN114031518A.

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