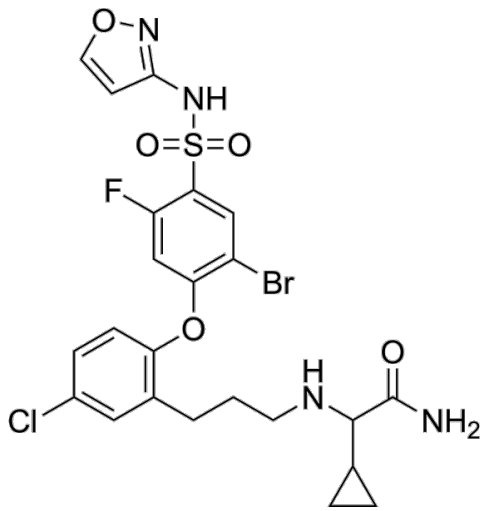
Product Data Sheet

Product Name: Nav1.7-IN-19
Cat. No.: GC79548

Chemical Properties

Cas. No.	3097995-73-5		
Formula	$C_{23}H_{23}BrClFN_4O_5S$	M.Wt	601.87
Solubility	DMSO: 100 mg/mL (166.15 mM; Need ultrasonic)	Storage	Store at -20°C
General tips	For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20°C for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		

Structure



Background

Nav1.7-IN-19 is a potent, selective and orally active Nav1.7 inhibitor with an IC_{50} of 0.49 μM. Nav1.7-IN-19 shows high selectivity for Nav1.7, with selectivities of 312-fold and 662-fold against Nav1.1 and Nav1.5 in the inactivated state. Nav1.7-IN-19 exhibits weak inhibition on hERG potassium channels. Nav1.7-IN-19 exhibits analgesic effect and can be used for the research of neurological disease [1].

Caution: Product has not been fully validated for medical applications. For research use only.
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In Vivo, Nav1.7-IN-19 (150 mg/kg, p.o., daily for 3-7 days) significantly increases the mechanical withdrawal threshold (MWT) in SD rats with spinal nerve ligation pain model[1]. Nav1.7-IN-19 (200 mg/kg, p.o., daily for 14 days) shows no obvious toxic reactions in rats[1].

In Vitro, Nav1.7-IN-19 shows inhibition rates of 0.5%, 3.1%, and 24.6% at concentrations of 3, 10, and 30 μM respectively[1].

References:

[1]. Wu R, et al. Design, synthesis, structure-activity relationship (SAR) and analgesic effect studies of novel arylsulfonamides as selective Nav1.7 inhibitors. Eur J Med Chem. 2025 Dec 5;299:118069.

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