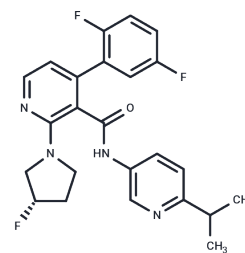


## Nav1.1 activator 1

## Chemical Properties

CAS No. :	2332897-85-3
Formula:	C <sub>24</sub> H <sub>23</sub> F <sub>3</sub> N <sub>4</sub> O
Molecular Weight:	440.46
Storage:	Store at low temperature Powder: -20°C for 3 years   In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



## Biological Description

Description	Nav1.1 activator 1 (compound 4) is an effective Nav1.1 agonist with blood-brain barrier permeability, exhibiting significant selectivity for Nav1.2, Nav1.5, and Nav1.6. It increases the decay time constant of Nav1.1 at 0.03 $\mu$ M current and can be used for studying central nervous system disorders.
Targets(IC50)	Sodium Channel
In vivo	<b>Methods:</b> In pharmacokinetic analysis, exposure was measured 1 hour after a single 30 mg/kg intraperitoneal injection of Nav1.1 activator 1 in mice. <b>Results:</b> Nav1.1 activator 1 achieved sufficient brain exposure (193 ng/g), indicating blood-brain barrier (BBB) penetration.

## Solubility Information

Solubility	DMSO: 200 mg/mL (454.07 mM), Sonication is recommended. ( $< 1$ mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.2704 mL	11.3518 mL	22.7035 mL
5 mM	0.4541 mL	2.2704 mL	4.5407 mL
10 mM	0.227 mL	1.1352 mL	2.2704 mL
50 mM	0.0454 mL	0.227 mL	0.4541 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Miyazaki T, et al. Discovery of novel 4-phenyl-2-(pyrrolidinyl)nicotinamide derivatives as potent Nav1.1 activators. Bioorg Med Chem Lett. 2019;29(6):815-820.

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