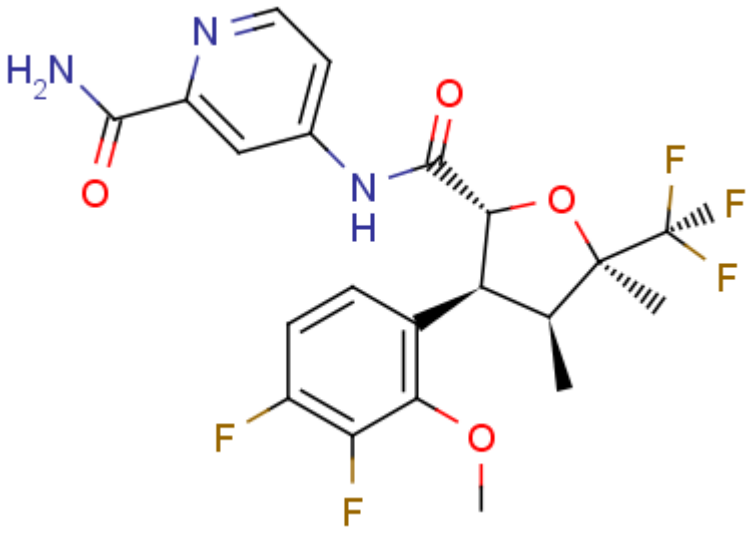
Name: Suzetrigine **Cat#:** EX-A7354

Target: Sodium Channel
Pathway: Membrane Transporter/Ion Channel

Chemical Structure:



Chemical Name	4-[[[(2R,3S,4S,5R)-3-(3,4-Difluoro-2-methoxyphenyl)tetrahydro-4,5-dimethyl-5-(trifluoromethyl)-2-furanyl]carbonyl]amino]-2-pyridinecarboxamide

Molecular Weight	473.3932	Storage	3 years -20°C powder 6 months -80°C in solvent Away from moisture
Formula	C21H20F5N3O4		
CAS No.	2649467-58-1	Synonyms	VX-548

Solubility (25°C) *	In vitro	DMSO	Soluble in DMSO >=100mg/mL (Need ultrasonic)
		Ethanol	N/A
		Water	N/A
	In vivo （should be freshly prepared each time）		

* <1 mg/ml means slightly soluble or insoluble.
* Please note that Selleck tests the solubility of all compounds in-house, and the actual solubility may differ slightly from published values. This is normal and is due to slight batch-to-batch variations.

Preparing Stock Solutions:

Mass / Volume / Concentration	1 mg	5 mg	10 mg
1 mM	1 mM	2.1124 mL	10.5621 mL
5 mM	5 mM	0.4225 mL	2.1124 mL
10 mM	10 mM	0.2112 mL	1.0562 mL

DMSO : *The above data is based on the product molecular weight 473.39.

Biological Activities:

Description	Suzetrigine (VX-548) is an orally active and highly selective NaV1.8 inhibitor that acts as an analgesic. Suzetrigine is also a blocker of sodium channel protein type 10 subunit alpha[1][2].

References	[1]. Jones J, et al. Selective Inhibition of NaV1.8 with VX-548 for Acute Pain. N Engl J Med. 2023 Aug 3;389(5):393-405. [2]. WHO Drug Information-World Health Organization (WHO).