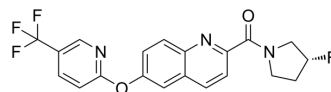


ABBV-318

Cat. No.:	HY-146069		
CAS No.:	1802848-94-7		
Molecular Formula:	C ₂₀ H ₁₅ F ₄ N ₃ O ₂		
Molecular Weight:	405.35		
Target:	Sodium Channel		
Pathway:	Membrane Transporter/Ion Channel		
Storage:	Powder	-20°C	3 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 166.67 mg/mL (411.18 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent	Mass	1 mg	5 mg	10 mg
		Concentration				
		1 mM		2.4670 mL	12.3350 mL	24.6700 mL
		5 mM		0.4934 mL	2.4670 mL	4.9340 mL
10 mM		0.2467 mL	1.2335 mL	2.4670 mL		
Please refer to the solubility information to select the appropriate solvent.						
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.08 mg/mL (5.13 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: 2.08 mg/mL (5.13 mM); Suspended solution; Need ultrasonic					
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (5.13 mM); Clear solution					

BIOLOGICAL ACTIVITY

Description	ABBV-318 is a potent Nav1.7/ Nav1.8 blocker, with IC ₅₀ s of 2.8 μM and 3.8 μM for hNav1.7 and hNav1.8, respectively. ABBV-318 can be used for the research of pain ^[1] .	
IC ₅₀ & Target	hNav _v 1.7 2.8 μM (IC ₅₀)	hNav _v 1.8 3.3 μM (IC ₅₀)

REFERENCES

[1]. Patel MV, et, al. Discovery of (R)-(3-fluoropyrrolidin-1-yl)(6-((5-(trifluoromethyl)pyridin-2-yl)oxy)quinolin-2-yl)methanone (ABBV-318) and analogs as small molecule Nav 1.7/ Nav1.8 blockers for the treatment of pain. *Bioorg Med Chem*. 2022 Jun 1;63:116743.

Caution: Product has not been fully validated for medical applications. For research use only.

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