

ABBV-318

Chemical Properties

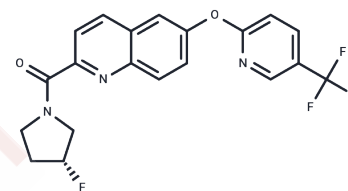
CAS No. : 1802848-94-7

Formula: C₂₀H₁₅F₄N₃O₂

Molecular Weight: 405.35

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



Biological Description

Description	ABBV-318 can be used as small molecule Nav1.7/Nav1.8 blockers for the treatment of pain, with IC ₅₀ values of 2.8 μM for hNav1.7 and 3.8 μM for hNav1.8. ABBV-318 can be used to study pain-related disorders.
Targets(IC ₅₀)	Others,Sodium Channel

Solubility Information

Solubility	DMSO: 150 mg/mL (370.05 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 4 mg/mL (9.87 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.467 mL	12.335 mL	24.670 mL
5 mM	0.4934 mL	2.467 mL	4.934 mL
10 mM	0.2467 mL	1.2335 mL	2.467 mL
50 mM	0.0493 mL	0.2467 mL	0.4934 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

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 Nav1.7/ Nav1.8 blockers for the treatment of pain. *Bioorg Med Chem.* 2022 ; 63:116743.

Verma IC, et al. Genetic Testing in Pediatric Ophthalmology. *Indian J Pediatr.* 2018 ; 85(3):228-236.

Koepsell H. The Na(+)-D-glucose cotransporters SGLT1 and SGLT2 are targets for the treatment of diabetes and cancer. *Pharmacol Ther.* 2017 ; 170:148-165.

Hafler BP. CLINICAL PROGRESS IN INHERITED RETINAL DEGENERATIONS: GENE THERAPY CLINICAL TRIALS AND ADVANCES IN GENETIC SEQUENCING. *Retina.* 2017 ; 37(3):417-423.

Poulsen SB, et al. Sodium-glucose cotransport. *Curr Opin Nephrol Hypertens.* 2015 ; 24(5):463-469.

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