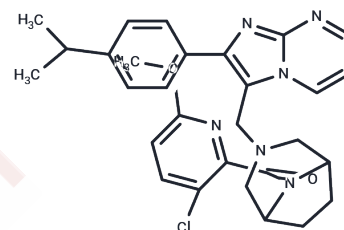


Bafrekalant

Chemical Properties

CAS No. :	2256770-44-0
Formula:	C ₂₉ H ₃₁ ClN ₆ O ₂
Molecular Weight:	531.05
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	Bafrekalant is a diazabicyclo-substituted imidazo[1,2-a]pyrimidine derivative that can be used to study sleep-related breathing disorders such as obstructive and central sleep apnoea and snoring.
Targets(IC50)	Others

Solubility Information

Solubility	DMSO: 225 mg/mL (423.69 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: 5 mg/mL (9.42 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	1.8831 mL	9.4153 mL	18.8306 mL
5 mM	0.3766 mL	1.8831 mL	3.7661 mL
10 mM	0.1883 mL	0.9415 mL	1.8831 mL
50 mM	0.0377 mL	0.1883 mL	0.3766 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

Martina Delbeck, et al. Diazabicyclic substituted imidazopyrimidines and their use for the treatment of breathing disorders. WO2018228907A1.

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