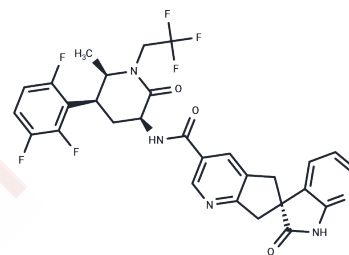


## Atogepant

## Chemical Properties

CAS No. :	1374248-81-3
Formula:	C <sub>29</sub> H <sub>23</sub> F <sub>6</sub> N <sub>5</sub> O <sub>3</sub>
Molecular Weight:	603.52
Storage:	Store at low temperature Powder: -20°C for 3 years   In solvent: -80°C for 1 year <i>Actual storage temperature shall be subject to the COA.</i>



## Biological Description

Description	Atogepant (MK-8031) is an orally available, selective and potent calcitonin gene-related peptide receptor (CGRP) antagonist for the study of migraine.
Targets(IC50)	CGRP Receptor
In vitro	Atogepant has a CGRP IC <sub>50</sub> =0.026 nM for human clones. The binding affinities of Atogepant for human and non-human CGRP receptors were: human (cloned) Ki=0.015 nM, human (natural) Ki=0.026 nM, rhesus macaque Ki=0.009 nM, rat Ki=0.7 nM, mouse Ki=0.13 nM, rabbit Ki=2.1 nM, dog Ki=1.2 nM, respectively. [1][2]
In vivo	Oral administration of Atogepant to rats (at doses of 3, 10, and 30 mg/kg, respectively) once daily for 9 days showed that Atogepant effectively attenuated the abnormal facial pain induced by nitroglycerin and ameliorated the capsaicin-induced vasodilation of primate dermis in rats.[2]

## Solubility Information

Solubility	DMSO: 250 mg/mL (414.24 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: 10 mg/mL (16.57 mM),Solution. 10% DMSO+90% Saline: < 10 mg/mL (16.57 mM),Lower concentrations may be soluble, but exact solubility limit is unknown. <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

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	1mg	5mg	10mg
1 mM	1.6569 mL	8.2847 mL	16.5695 mL
5 mM	0.3314 mL	1.6569 mL	3.3139 mL
10 mM	0.1657 mL	0.8285 mL	1.6569 mL
50 mM	0.0331 mL	0.1657 mL	0.3314 mL

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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

- Ailani J, et al. Atogepant for the Preventive Treatment of Migraine. *N Engl J Med.* 2021 Aug 19;385(8):695-706.
- Moore E, et al. Pharmacologic characterization of atogepant: A potent and selective calcitonin gene-related peptide receptor antagonist. *Cephalalgia.* 2024;44(1)

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