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Data Sheet

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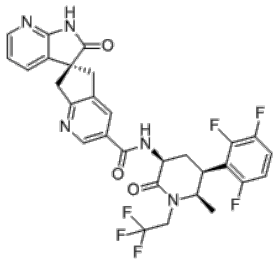
Product Name : Atogepant
Cat. No. : PC-60031
CAS No. : 1374248-81-3
Molecular Formula : $C_{29}H_{23}F_6N_5O_3$
Molecular Weight : 603.525
Target : CGRP Receptor
Solubility : 10 mM in DMSO



1. Rubio-Beltran E, et al. ***Cephalalgia.*** 2020 Apr;40(4):357-366.

Biological Activity

Atogepant (MK-8031) is a potent and selective calcitonin gene-related peptide (**CGRP**) receptor antagonist with Ki of 2 pM (hCGRP).
Atogepant shows similar affinity for rhesus CGRP receptors (Ki = 0.009 nM), but a weaker affinity for rat and dog CGRP receptors (Ki = 0.7 nM and Ki = 1.2 nM, respectively).
Atogepant inhibited [125I]-amylin binding on membranes from cells expressing human recombinant AMY1 (Ki=1.8 nM).
Atogepant inhibited AMY-induced cAMP accumulation with an IC50 of 2.4 nM on the AMY1 receptor, and an IC50 of 1418 nM on the AMY3 receptor.
Atogepant exhibited significant affinity for the amylin1 receptor but lacked appreciable affinities for adrenomedullin, calcitonin and other known neurotransmitter receptor targets.
Atogepant dose-dependently inhibited facial allodynia in the rat nitroglycerine model and produced significant CIDV inhibition in primates.

References