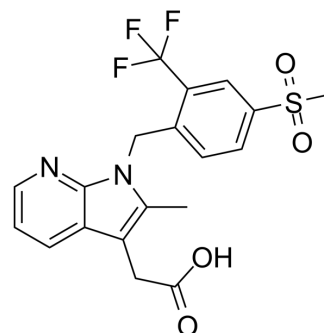


Feviprant

Cat. No.:	HY-16768		
CAS No.:	872365-14-5		
Molecular Formula:	C ₁₉ H ₁₇ F ₃ N ₂ O ₄ S		
Molecular Weight:	426.41		
Target:	Prostaglandin Receptor		
Pathway:	GPCR/G Protein		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 32 mg/mL (75.05 mM)
 * "≥" means soluble, but saturation unknown.

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	2.3452 mL	11.7258 mL	23.4516 mL
	5 mM	0.4690 mL	2.3452 mL	4.6903 mL
	10 mM	0.2345 mL	1.1726 mL	2.3452 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
Solubility: ≥ 2.5 mg/mL (5.86 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.5 mg/mL (5.86 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.5 mg/mL (5.86 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Feviprant (QAW039, NVP-QAW039) is an orally active, selective, reversible prostaglandin D₂ (DP₂) receptor antagonist with an K_D value of 1.14 nM. Feviprant has the potential for the research of bronchial asthma^{[1][2][3]}.

IC₅₀ & Target

DP₂
1.14 nM (K_D)

In Vitro	<p>Feviprant (0-10 μM) inhibits the gene expression of IL-4, IL-3, IL-5, IL-8, CSF1, CSF2 in n in human Th2 cells induced by activated mast cell supernatants^[1].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>								
In Vivo	<p>Feviprant (10 mg/kg; in the drinking water) reduces CaCl₂-induced AAA (abdominal aortic aneurysm) formation in mouse [3].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <table border="1" data-bbox="345 380 1515 653"> <tr> <td data-bbox="345 380 618 443">Animal Model:</td> <td data-bbox="618 380 1515 443">C57Bl/6 mice^[3]</td> </tr> <tr> <td data-bbox="345 443 618 506">Dosage:</td> <td data-bbox="618 443 1515 506">10 mg/kg</td> </tr> <tr> <td data-bbox="345 506 618 569">Administration:</td> <td data-bbox="618 506 1515 569">In the drinking water</td> </tr> <tr> <td data-bbox="345 569 618 653">Result:</td> <td data-bbox="618 569 1515 653">Efficiently reduced CaCl₂-induced AAA formation with diminished elastin degradation, aortic macrophage infiltration, MPO accumulation and MCP-1 expression.</td> </tr> </table>	Animal Model:	C57Bl/6 mice ^[3]	Dosage:	10 mg/kg	Administration:	In the drinking water	Result:	Efficiently reduced CaCl ₂ -induced AAA formation with diminished elastin degradation, aortic macrophage infiltration, MPO accumulation and MCP-1 expression.
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CUSTOMER VALIDATION

- Int J Mol Sci. 2018 Oct 5;19(10). pii: E3036.

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REFERENCES

- [1]. Brightling C, et al. The pharmacology of the prostaglandin D2 receptor 2 (DP2) receptor antagonist, feviprant. *Pulm Pharmacol Ther.* 2021 Jun;68:102030.
- [2]. Lee HY, et al. Blockade of thymic stromal lymphopoietin and CRTH2 attenuates airway inflammation in a murine model of allergic asthma. *Korean J Intern Med.* 2020 May;35(3):619-629.
- [3]. Weintraub NL, et al. Role of prostaglandin D2 receptors in the pathogenesis of abdominal aortic aneurysm formation. *Clin Sci (Lond).* 2022 Mar 18;136(5):309-321.

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

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