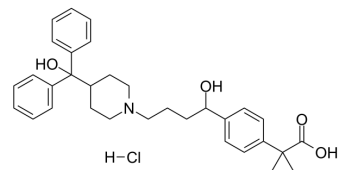


Fexofenadine hydrochloride

Cat. No.:	HY-B0801A
CAS No.:	153439-40-8
Molecular Formula:	C ₃₂ H ₄₀ ClNO ₄
Molecular Weight:	538.12
Target:	Histamine Receptor
Pathway:	GPCR/G Protein; Immunology/Inflammation; Neuronal Signaling
Storage:	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 100 mg/mL (185.83 mM)
 H₂O : < 0.1 mg/mL (ultrasonic;warming;heat to 60°C) (insoluble)
 * "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	1.8583 mL	9.2916 mL	18.5832 mL
	5 mM	0.3717 mL	1.8583 mL	3.7166 mL
	10 mM	0.1858 mL	0.9292 mL	1.8583 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 (4.65 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
Solubility: ≥ 2.5 mg/mL (4.65 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.5 mg/mL (4.65 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Fexofenadine hydrochloride (MDL-16455 hydrochloride), a H1R antagonist, is an anti-allergic agent used in seasonal allergic rhinitis and chronic idiopathic urticarial (person aged ≥16 years)^[1].

IC₅₀ & Target

H1R^[1]

In Vitro

Fexofenadine hydrochloride (MDL-16455 hydrochloride) (100 μM; 1 hour) effectively blocks phosphorylated p38 activation in histamine-induced nasal fibroblasts^[2].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Western Blot Analysis^[2]

Cell Line:	Nasal Fibroblasts
Concentration:	100 μ M
Incubation Time:	1 hour
Result:	Effectively blocked phosphorylated p38 activation in histamine-induced nasal fibroblasts.

In Vivo

Fexofenadine hydrochloride (MDL-16455 hydrochloride) (5-20 mg/kg; oral daily for 3 weeks) dose-dependently suppresses eosinophilia in C57BL/6 mice infected with *T. spiralis*^[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	C57BL/6 mice ^[1]
Dosage:	5, 10, 20 mg/kg
Administration:	Orally; daily for 3 weeks
Result:	Specifically dose-dependently suppressed eosinophilia in C57BL/6 mice infected with <i>T. spiralis</i> .

REFERENCES

[1]. Watanabe N, et al. The effects of fexofenadine on eosinophilia and systemic anaphylaxis in mice infected with *Trichinella spiralis*. *Int Immunopharmacol*. 2004 Mar;4(3):367-75.

[2]. Park IH, et al. Histamine Promotes the Release of Interleukin-6 via the H1R/p38 and NF- κ B Pathways in NasalFibroblasts. *Allergy Asthma Immunol Res*. 2014 Nov;6(6):567-72.

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

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