## Fexofenadine

**BIOLOGICAL ACTIVITY** 

Cat. No.:	HY-B0801			
CAS No.:	83799-24-0			
Molecular Formula:	C <sub>32</sub> H <sub>39</sub> NO <sub>4</sub>			
Molecular Weight:	501.66			
Target:	Histamine Receptor			
Pathway:	GPCR/G Protein; Immunology/Inflammation; Neuronal Signaling			
Storage:	Powder	-20°C	3 years	
	In solvent	-80°C	6 months	
		-20°C	1 month	

Description	Fexofenadine (MDL-16455) is an orally active and nonsedative H1 receptor antagonist. Fexofenadine can be used in allergic rhinitis and chronic idiopathic urticarial research <sup>[1][2][3]</sup> .			
IC <sub>50</sub> & Target	H <sub>1</sub> Receptor			
In Vitro	Fexofenadine (1-100 μM; 1 h) inhibits the expression of IL-6 protein in nasal fibroblasts in a dose-dependent manner <sup>[2]</sup> . Fexofenadine (1-100 μM; 1 h) blocks phosphorylated p38 activation in histamine-induced nasal fibroblasts, but shows no effect on either pERK or pJNK <sup>[2]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only. Western Blot Analysis <sup>[2]</sup>			
	Cell Line:	Nasal fibroblasts		
	Concentration:	100 μΜ		
	Incubation Time:	1 hour		
	Result:	Blocked pp38 activation in histamine-induced nasal fibroblasts, showed histamine- induced IL-6 production mediated by the p38 pathway.		
In Vivo	Fexofenadine hydrochloride (oral administration; 5-20 mg/kg; once daily; 3 w) suppresses both eosinophilia and systemic anaphylaxis in C57BL/6 mice infected with T. spiralis <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.			
	Animal Model:	C57BL/6 mice infected with Trichinella spiralis <sup>[1]</sup>		
	Dosage:	5, 10 and 20 mg/kg		
	Administration:	Oral administration; 5, 10 and 20 mg/kg; once daily; 3 weeks		
	Result:	Inhibited eosinophilia in a dose-dependent manner. Suppressed the decrease in rectal temperature (p<0.01), a marker for systemic anaphylaxis.		

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## CUSTOMER VALIDATION

- Pharmacol Res. 2023 Mar 10;106724.
- Adv Mater Technol. 2023 Jan 29.
- Int Immunopharmacol. 2023 Feb 8;116:109637.

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## 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-κB Pathways in Nasal Fibroblasts. Allergy Asthma Immunol Res. 2014 Nov;6(6):567-72.

[3]. Ming X, et al. Vectorial transport of fexofenadine across Caco-2 cells: involvement of apical uptake and basolateral efflux transporters. Mol Pharm. 2011 Oct 3;8(5):1677-86.

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

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