Naphazoline

Cat. No.:	HY-111326	N
CAS No.:	835-31-4	
Molecular Formula:	C ₁₄ H ₁₄ N ₂	[−] N
Molecular Weight:	210.27	I Ĥ
Target:	Adrenergic Receptor; TNF Receptor; Interleukin Related; VEGFR	
Pathway:	GPCR/G Protein; Neuronal Signaling; Apoptosis; Immunology/Inflammation; Protein	
	Tyrosine Kinase/RTK	\sim \downarrow
Storage:	Please store the product under the recommended conditions in the Certificate of	\sim
	Analysis.	

BIOLOGICAL ACTIVITY					
Description	Naphazoline (Naphthazoline) is a potent α-adrenergic receptor agonist. Naphazoline reduces vascular hyperpermeability and promotes vasoconstriction. Naphazoline reduces the levels of inflammatory factors (TNF-α, IL-1β and IL-6), cytokines (IFN-γ and IL-4), IgE, GMCSF, and NGF⊠Naphazoline can be used for non-bacterial conjunctivitis research ^{[1][2]} .				
IC ₅₀ & Target	IL-1β	IL-6	IL-4		
In Vivo	Naphazoline (0.2 mg/kg, 10 μ hyperpermeability in mice, ar MCE has not independently co Animal Model: Dosage: Administration: Result:	11-0 11-4 0 μl per eye; IP, once) reduces histamine or antigen-induced conjunctival vascular and reduces conjunctivitis in mice via effects on inflammation, NGF and VEGF ^[1] . y confirmed the accuracy of these methods. They are for reference only. Female wild-type BALB/c mice (4-5 weeks, 18 ± 2 g, n=8/group, allergic conjunctivitis mouse model established using histamine or an antigen (ovalbumin)) ^[1] 0.2 mg/mL, 10 μl per eye Intraperitoneal injection (IP), once Significantly suppressed conjunctival dye leakage in mice with histamine or antigen and the levels of IL-1β, IL-6, IFN-γ, and IL-4. Reduced the levels of IgE, GMCSF, NGF and VEGF antigen-induced conjunctival vascular hyperpermeability mice.			

REFERENCES

[1]. Quan L, et, al. Treatment with olopatadine and naphazoline hydrochloride reduces allergic conjunctivitis in mice through alterations in inflammation, NGF and VEGF. Mol Med Rep. 2016 Apr;13(4):3319-25.

[2]. Yamaguchi I, et, al. Central and peripheral adrenergic mechanisms regulating gastric secretion in the rat. J Pharmacol Exp Ther. 1977 Oct;203(1):125-31.

Product Data Sheet



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

 Tel: 609-228-6898
 Fax: 609-228-5909
 E-mail: tech@MedChemExpress.com

 Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA