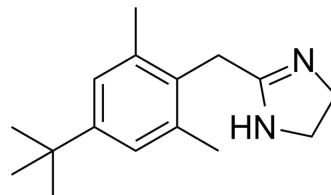


Xylometazoline

Cat. No.:	HY-B0475A
CAS No.:	526-36-3
Molecular Formula:	C ₁₆ H ₂₄ N ₂
Molecular Weight:	244.38
Target:	Adrenergic Receptor
Pathway:	GPCR/G Protein; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Xylometazoline is an α -adrenergic receptor agonist ($K_i=0.05-1.7 \mu\text{M}$). Xylometazoline can constrict nasal blood vessels and increase nasal airflow. Xylometazoline can be used in nose stuffiness and runny nose research ^{[1][2]} .			
IC₅₀ & Target	Alpha-1A adrenergic receptor 0.05 μM (K _i)	Alpha-1B adrenergic receptor 0.30 μM (K _i)	Alpha-1D adrenergic receptor 0.15 μM (K _i)	Alpha-2A adrenergic receptor 0.88 μM (K _i)
	Alpha-2B adrenergic receptor 1.7 μM (K _i)	Alpha-2C adrenergic receptor 0.19 μM (K _i)		

REFERENCES

- [1]. Ronald Eccles, et al. The nasal decongestant effect of xylometazoline in the common cold. *Am J Rhinol.* 2008 Sep-Oct;22(5):491-6.
- [2]. Britta Haenisch, et al. Alpha-adrenoceptor agonistic activity of oxymetazoline and xylometazoline. *Fundam Clin Pharmacol.* 2010 Dec;24(6):729-39.

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

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