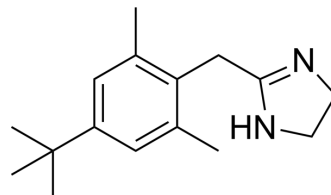


## Xylometazoline

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



### BIOLOGICAL ACTIVITY

<b>Description</b>	Xylometazoline is an $\alpha$ -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 <sup>[1][2]</sup> .			
<b>IC<sub>50</sub> &amp; Target</b>	Alpha-1A adrenergic receptor 0.05 $\mu\text{M}$ (K <sub>i</sub> )	Alpha-1B adrenergic receptor 0.30 $\mu\text{M}$ (K <sub>i</sub> )	Alpha-1D adrenergic receptor 0.15 $\mu\text{M}$ (K <sub>i</sub> )	Alpha-2A adrenergic receptor 0.88 $\mu\text{M}$ (K <sub>i</sub> )
	Alpha-2B adrenergic receptor 1.7 $\mu\text{M}$ (K <sub>i</sub> )	Alpha-2C adrenergic receptor 0.19 $\mu\text{M}$ (K <sub>i</sub> )		

### 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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