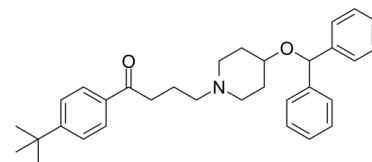


Data Sheet

Product Name:	Ebastine
Cat. No.:	CS-2906
CAS No.:	90729-43-4
Molecular Formula:	C ₃₂ H ₃₉ NO ₂
Molecular Weight:	469.66
Target:	Histamine Receptor
Pathway:	GPCR/G Protein; Immunology/Inflammation; Neuronal Signaling
Solubility:	Ethanol : 58.75 mg/mL (125.09 mM; Need ultrasonic)



BIOLOGICAL ACTIVITY:

Ebastine(LAS-W 090;RP64305) is a long-acting and selective H₁-histamine receptor antagonist. Target: Histamine H₁ Receptor
Ebastine is a H₁ antihistamine with low potential for causing drowsiness. Ebastine (10 mg orally) causes brain histamine H₁-receptor occupation of approximately 10%, consistent with its lower incidence of sedative effect, whereas (+)-chlorpheniramine occupied about 50% of brain H₁-receptors even at a low but sedative dose of 2 mg; occupancy of (+)-chlorpheniramine was correlated with plasma (+)-chlorpheniramine concentration [1]. ebastine 10 or 20 mg once daily was rapidly effective in relieving symptoms of PAR in adult and adolescent patients; additional benefits of the 20-mg dose became apparent in the longer term [2]. ebastine is an effective and generally well-tolerated treatment for allergic rhinitis and chronic idiopathic urticaria. In addition to the regular tablet formulation, ebastine is available as a FDT, providing a treatment option that is particularly convenient for patients [3].

References:

- [1]. Tagawa, M., et al., Neuroimaging of histamine H₁-receptor occupancy in human brain by positron emission tomography (PET): a comparative study of ebastine, a second-generation antihistamine, and (+)-chlorpheniramine, a classical antihistamine. *Br J Clin Pharmacol*, 2001. 52(5): p. 501-9.
- [2]. Bousquet, J., et al., A 12-week, placebo-controlled study of the efficacy and safety of ebastine, 10 and 20 mg once daily, in the treatment of perennial allergic rhinitis. Multicentre Study Group. *Allergy*, 1999. 54(6): p. 562-8.
- [3]. Sastre, J., Ebastine in allergic rhinitis and chronic idiopathic urticaria. *Allergy*, 2008. 63 Suppl 89: p. 1-20.

CAIndexNames:

1-Butanone, 1-[4-(1,1-dimethylethyl)phenyl]-4-[4-(diphenylmethoxy)-1-piperidinyl]-

SMILES:

O=C(C1=CC=C(C(C)C)C=C1)CCCN2CCC(OC(C3=CC=CC=C3)C4=CC=CC=C4)CC2

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

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