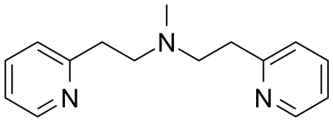
Betahistine EP Impurity C

Cat. No.:	HY-107495
CAS No.:	5452-87-9
Molecular Formula:	$C_{15}H_{19}N_3$
Molecular Weight:	241.33
Target:	Histamine Receptor
Pathway:	GPCR/G Protein; Immunology/Inflammation; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Betahistine EP Impurity C (NSC19005) is an impurity of Betahistine[1]. Betahistine is a potent, orally active and well-tolerated histamine H1 receptor agonist and H3 receptor antagonist used for the study of rheumatoid arthritis (RA)[2][3].
In Vitro	Betahistine (0-10 μM) inhibits [^{125}I]iodoproxyfan binding to membranes of CHO ($rH_{3(445)}R$) and CHO ($hH_{3(445)}R$) cells with IC_{50} values of 1.9 μM and 3.3 μM, respectively. Lead to K_i values of 1.4 μM and 2.5 μM, respectively[3]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Murilo B. M. de Mello, et al. Characterization and in silico Mutagenic Assessment of a New Betahistine Degradation Impurity. J. Braz. Chem. Soc. vol.30 no.7 São Paulo July 2019 Epub July 04, 2019

[2]. Poyurovsky M, et al. The effect of betahistine, a histamine H1 receptor agonist/H3 antagonist, on olanzapine-induced weight gain in first-episode schizophrenia patients. Int Clin Psychopharmacol. 2005 Mar;20(2):101-3.

[3]. Betahistine EP Impurity C (NSC19005) is an impurity of Betahistine[1]. Betahistine is a potent, orally active and well-tolerated histamine H1 receptor agonist and H3 receptor antagonist used for the study of rheumatoid arthritis (RA)[2].

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