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Produktinformation



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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
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PRODUCT INFORMATION



Iodophenpropit (hydrobromide)

Item No. 32850

CAS Registry No.: 145196-87-8
Formal Name: [2-(4-iodophenyl)ethyl]-
carbamimidothioic acid,
3-(1H-imidazol-4-yl)propyl ester,
dihydrobromide

MF: C₁₅H₁₉IN₄S • 2HBr

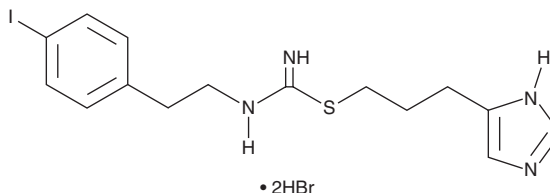
FW: 576.1

Purity: ≥98%

Supplied as: A solid

Storage: -20°C

Stability: ≥2 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

Iodophenpropit (hydrobromide) is supplied as a solid. A stock solution may be made by dissolving the iodophenpropit (hydrobromide) in the solvent of choice, which should be purged with an inert gas. Iodophenpropit (hydrobromide) is soluble in organic solvents such as DMSO. It is also soluble in water. The solubility of iodophenpropit (hydrobromide) in DMSO and water is approximately 50 mg/ml. We do not recommend storing the aqueous solution for more than one day.

Description

Iodophenpropit is a histamine H₃ receptor antagonist (pA₂ = 9.6 in guinea pig intestine, which has a high endogenous expression of H₃ receptors).¹ It increases forskolin-induced cAMP production in SK-N-MC cells expressing the recombinant human H₃ receptor (EC₅₀ = 25.1 nM).² It is also an inhibitor of NR1/NR2A, NR1/NR2B, NR1/NR2C, and NR1/NR2D subunit-containing NMDA receptors (IC₅₀s = 1.3, 1.4, 9.7, and 14 μM, respectively, for the rat recombinant receptors).³ Iodophenpropit induces scratching behavior in mice when administered intradermally at a dose of 10 nmol and reduces amygdala-kindled seizure duration in rats (ED₅₀ = 2.54 mg/kg).^{4,5}

References

1. Jansen, F.P., Wu, T.S., Voss, H.P., *et al.* Characterization of the binding of the first selective radiolabelled histamine H₃-receptor antagonist, [¹²⁵I]-iodophenpropit, to rat brain. *Br. J. Pharmacol.* **113**(2), 355-362 (1994).
2. Wieland, K., Bongers, G., Yamamoto, Y., *et al.* Constitutive activity of histamine H₃ receptors stably expressed in SK-N-MC cells: Display of agonism and inverse agonism by H₃ antagonists. *J. Pharmacol. Exp. Ther.* **299**(3), 908-914 (2001).
3. Hansen, K.B., Mullasseril, P., Dawit, S., *et al.* Implementation of a fluorescence-based screening assay identifies histamine H₃ receptor antagonists clobenpropit and iodophenpropit as subunit-selective N-methyl-D-aspartate receptor antagonists. *J. Pharmacol. Exp. Ther.* **333**(3), 650-662 (2010).
4. Hossen, M.A., Inoue, T., Shinmei, Y., *et al.* Role of substance P on histamine H₃ antagonist-induced scratching behavior in mice. *J. Pharmacol. Sci.* **100**(4), 297-302 (2006).
5. Harada, C., Fujii, Y., Hirai, T., *et al.* Inhibitory effect of iodophenpropit, a selective histamine H₃ antagonist, on amygdaloid kindled seizures. *Brain Res. Bull.* **63**(2), 143-146 (2004).

WARNING

THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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