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# Produktinformation

- Forschungsprodukte & Biochemikalien
- Zellkultur & Verbrauchsmaterial
- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

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## Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

## Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand


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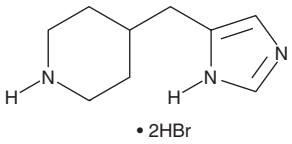
# PRODUCT INFORMATION

## Immepip (hydrobromide)

*Item No. 29518*

**CAS Registry No.:** 164391-47-3
**Formal Name:** 4-(1H-imidazol-5-ylmethyl)-piperidine, dihydrobromide
**MF:** $C_9H_{15}N_3 \bullet 2HBr$
**FW:** 327.1
**Purity:** ≥95%
**Supplied as:** A crystalline 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

Immepip (hydrobromide) is supplied as a crystalline solid. A stock solution may be made by dissolving the immepip (hydrobromide) in the solvent of choice, which should be purged with an inert gas. Immepip (hydrobromide) is soluble in the organic solvent DMSO. Immepip (hydrobromide) is also soluble in water. We do not recommend storing the aqueous solution for more than one day.

### Description

Immepip is a histamine $H_3$ receptor agonist ($K_i$ = 0.4 nM in SK-N-MC cell membranes expressing the human receptor).[1] It is selective for histamine $H_3$ over $H_1$ and $H_2$ receptors in CHO cell membranes expressing the guinea pig and human receptors, respectively ($K_i$s = >16 µM for both) but also agonizes $H_4$ receptors ($K_i$ = 9 nM in SK-N-MC cell membranes expressing the human receptor).[1,2] Immepip (5 mg/kg, s.c.) decreases hypothalamic histamine release in anesthetized rats.[3] It decreases flinching in the formalin test in rats when administered at doses of 5 and 30 mg/kg and inhibits formalin-induced paw edema at 30 mg/kg.[4]

### References


1. Liu, C., Ma, X., Jiang, X., *et al.* Cloning and pharmacological characterization of a fourth histamine receptor ($H_4$) expressed in bone marrow. *Mol. Pharmacol.* **59(3),** 420-426 (2001).
2. Vollinga, R.C., de Koning, J.P., Jansen, F.P., *et al.* A new potent and selective histamine $H_3$ receptor agonist, 4-(1H-imidazol-4-ylmethyl)piperidine. *J. Med. Chem.* **37(3),** 332-333 (1994).
3. Jansen, F.P., Mochizuki, T., Yamamoto, Y., *et al.* In vivo modulation of rat hypothalamic histamine release by the histamine $H_3$ receptor ligands, immepip and clobenpropit. Effects of intrahypothalamic and peripheral application. *Eur. J. Pharmacol.* **362(2-3),** 149-155 (1998).
4. Cannon, K.E., Leurs, R., and Hough, L.B. Activation of peripheral and spinal histamine $H_3$ receptors inhibits formalin-induced inflammation and nociception, respectively. *Pharmacol. Biochem. Behav.* **88(1),** 122-129 (2007).





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