

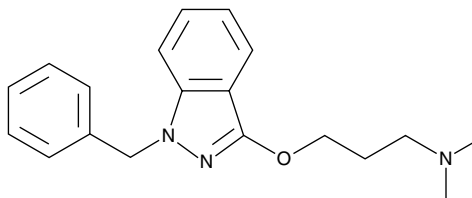
Product Information



Benzydamine

Item No. 15161

CAS Registry No.: 642-72-8
Formal Name: N,N-dimethyl-3-[[1-(phenylmethyl)-1H-indazol-3-yl]oxy]-1-propanamine
MF: C₁₉H₂₃N₃O
FW: 309.4
Purity: ≥95%
Stability: ≥2 years at -20°C
Supplied as: A crystalline solid
UV/Vis.: λ_{max}: 210, 309 nm



Laboratory Procedures

For long term storage, we suggest that benzydamine be stored as supplied at -20°C. It should be stable for at least two years.

Benzydamine is supplied as a crystalline solid. A stock solution may be made by dissolving the benzydamine in the solvent of choice. Benzydamine is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF), which should be purged with an inert gas. The solubility of benzydamine in ethanol is approximately 50 mg/ml and approximately 25 mg/ml in DMSO and DMF.

Benzydamine is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, benzydamine should first be dissolved in ethanol and then diluted with the aqueous buffer of choice. Benzydamine has a solubility of approximately 0.5 mg/ml in a 1:1 solution of ethanol:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

Benzydamine is commonly used, in its hydrochloride form, as a local analgesic and anti-inflammatory at oral and vaginal mucosal surfaces.¹⁻³ Among its many effects, it locally suppresses histamine-induced vasodilation and vascular permeability and blocks the production of TNF-α by monocytes (IC₅₀ = 25 μM).⁴ Benzydamine is also abused by inhalation and ingestion.⁵ This product is intended for forensic and research purposes.

References

1. Huang, Y.-S., Hung, N.-K., Lee, M.-S., *et al.* The effectiveness of benzydamine hydrochloride spraying on the endotracheal tube cuff or oral mucosa for postoperative sore throat. *Anesth. Analg.* **111**(4), 887-891 (2010).
2. Kazemian, A., Kamian, S., Aghili, M., *et al.* Benzydamine for prophylaxis of radiation-induced oral mucositis in head and neck cancers: A double-blind placebo-controlled randomized clinical trial. *Eur. J. Cancer Care (Engl)* **18**(2), 174-178 (2009).
3. Boselli, F., Petrella, E., Campedelli, A., *et al.* Efficacy and tolerability of fitostimoline (vaginal cream, ovules, and vaginal washing) and of benzydamine hydrochloride (tantum rosa vaginal cream and vaginal washing) in the topical treatment of symptoms of bacterial vaginosis. *ISRN Obstet. Gynecol.* 2012, 1-5 (2012).
4. Quane, P.A., Graham, G.G., and Ziegler, J.B. Pharmacology of benzydamine. *Inflammopharmacology* **6**(2), 95-107 (1998).
5. Anand, J.S., Glebocka, M.L., and Korolkiewicz, R.P. Recreational abuse with benzydamine hydrochloride (tantum rosa). *Clin. Toxicol. (Phila)* **45**(2), 198-199 (2007).

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WARNING: THIS PRODUCT IS FOR LABORATORY RESEARCH ONLY: NOT FOR ADMINISTRATION TO HUMANS. NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA

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