Product Information

Bufuralol (hydrochloride)
Item No. 17794

CAS Registry No.: 60398-91-6
Formal Name: α-[[1,1-dimethylpropyl]amino]methyl]-7-ethyl-2-benzofuranmethanol, monohydrochloride
Synonym: Ro 3-4787
MF: C_{17}H_{23}NO_{2} • HCl
FW: 297.8
Purity: ≥95%
Stability: ≥2 years at ~20°C
Supplied as: A crystalline solid
UV/Vis: λ_{max} 209, 248 nm

Laboratory Procedures
For long term storage, we suggest that bufuralol (hydrochloride) be stored as supplied at ~20°C. It should be stable for at least two years.

Bufuralol (hydrochloride) is supplied as a crystalline solid. A stock solution may be made by dissolving the bufuralol (hydrochloride) in the solvent of choice. Bufuralol (hydrochloride) is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF), which should be purged with an inert gas. The solubility of bufuralol (hydrochloride) in ethanol and DMF is approximately 15 mg/ml and approximately 10 mg/ml in DMSO.

Further dilutions of the stock solution into aqueous buffers or isotonic saline should be made prior to performing biological experiments. Ensure that the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. Organic solvent-free aqueous solutions of bufuralol (hydrochloride) can be prepared by directly dissolving the crystalline solid in aqueous buffers. The solubility of bufuralol (hydrochloride) in PBS, pH 7.2, is approximately 5 mg/ml. We do not recommend storing the aqueous solution for more than one day.

Description
Bufuralol is a non-specific β-adrenergic blocker with affinity for both β₁ and β₂-adrenergic receptors. It acts as a potent β-adrenoceptor antagonist with partial agonist activity.¹ It is primarily metabolized by cytochrome P450 (CYP) isoform CYP2D6, with CYP1A2 and CYP2C19 also contributing to 1'-hydroxylation.²

References

[WARNING: This product is for laboratory research only; not for administration to humans. Not for human or veterinary diagnostic or therapeutic use.]

SAFETY DATA
This material should be considered hazardous until information to the contrary becomes available. Do not ingest, swallow, or inhale. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. This information contains some, but not all, of the information required for the safe and proper use of this material. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

WARRANTY AND LIMITATION OF REMEDY
Cayman Chemical Company makes no warranty or guarantee of any kind, whether written or oral, expressed or implied, including without limitation, any warranty of fitness for a particular purpose, salability and merchantability, which extends beyond the description of the chemicals hereof. Cayman warrants only to the original customer that the material will meet our specifications at the time of delivery.

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This limitation of liability does not apply in the case of intentional acts or negligence of Cayman, its directors or its employees.

Buyer’s exclusive remedy and Cayman’s sole liability hereunder shall be limited to a refund of the purchase price, or at Cayman’s option, the replacement, at no cost to Buyer, of all material that does not meet our specifications.

Refund or replacement is conditioned on Buyer giving written notice to Cayman within thirty (30) days after arrival of the material at its destination. Failure of Buyer to give said notice within thirty (30) days shall constitute a waiver by Buyer of all claims hereunder with respect to said material.

For further details, please refer to our Warranty and Limitation of Remedy located on our website and in our catalog.

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