

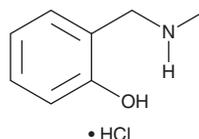
PRODUCT INFORMATION



N-methyl-2-HOBA (hydrochloride)

Item No. 25399

CAS Registry No.: 63989-87-7
Formal Name: 2-[(methylamino)methyl]-phenol, monohydrochloride
Synonyms: N-methyl-2-(Aminomethyl)phenol, N-methyl-2-Hydroxybenzylamine, 2-hydroxy-N-Methylbenzylamine
MF: C₈H₁₁NO • HCl
FW: 173.6
Purity: ≥98%
UV/Vis.: λ_{max}: 217, 278 nm
Supplied as: A crystalline solid
Storage: -20°C
Stability: ≥4 years



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

Laboratory Procedures

N-methyl-2-HOBA (hydrochloride) is supplied as a crystalline solid. A stock solution may be made by dissolving the N-methyl-2-HOBA (hydrochloride) in the solvent of choice, which should be purged with an inert gas. N-methyl-2-HOBA (hydrochloride) is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF). The solubility of N-methyl-2-HOBA (hydrochloride) in ethanol is approximately 20 mg/ml and approximately 50 mg/ml in DMSO and DMF.

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 N-methyl-2-HOBA (hydrochloride) can be prepared by directly dissolving the crystalline solid in aqueous buffers. The solubility of N-methyl-2-HOBA (hydrochloride) in PBS, pH 7.2, is approximately 10 mg/ml. We do not recommend storing the aqueous solution for more than one day.

Description

N-methyl-2-HOBA is a methylated form of the isoketal scavenger 2-HOBA (Item No. 25357).¹ It has low reactivity with isoketals and has no effect on hypertension induced by angiotensin II (Item No. 17150). N-methyl-2-HOBA has been used as a negative control for the activity of 2-HOBA in a mouse model of hypertension.

Reference

1. Kirabo, A., Fontana, V., de Faria, A.P.C., et al. DC isoketal-modified proteins activate T cells and promote hypertension. *J. Clin. Invest.* **124**(10), 4642-4656 (2014).

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.

WARRANTY AND LIMITATION OF REMEDY
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