

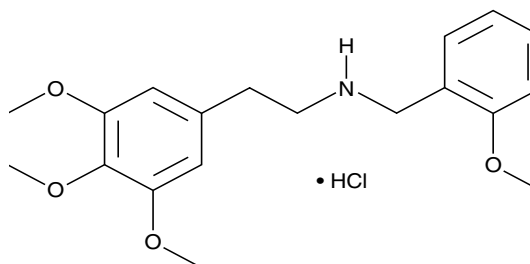
# Product Information



## Mescaline NBOMe (hydrochloride)

Item No. 9001990

**Formal Name:** 3,4,5-trimethoxy-N-[(2-methoxyphenyl)methyl]-benzeneethanamine, monohydrochloride  
**MF:** C<sub>19</sub>H<sub>25</sub>NO<sub>4</sub> • HCl  
**FW:** 367.9  
**Purity:** ≥98%  
**Stability:** ≥2 years at -20°C  
**Supplied as:** A crystalline solid  
**UV/Vis.:** λ<sub>max</sub>: 273 nm



### Laboratory Procedures

For long term storage, we suggest that mescaline NBOMe (hydrochloride) be stored as supplied at -20°C. It should be stable for at least 2 years.

Mescaline NBOMe (hydrochloride) is supplied as a crystalline solid. A stock solution may be made by dissolving the mescaline NBOMe (hydrochloride) in the solvent of choice. Mescaline NBOMe (hydrochloride) is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide, which should be purged with an inert gas. The solubility of mescaline NBOMe (hydrochloride) in these solvents is approximately 10, 20, and 10 mg/ml, respectively.

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 mescaline NBOMe (hydrochloride) can be prepared by directly dissolving the crystalline solid in aqueous buffers. The solubility of mescaline NBOMe (hydrochloride) in PBS, pH 7.2, is approximately 5 mg/ml. We do not recommend storing the aqueous solution for more than one day.

Mescaline (Item No. 11950) is a psychedelic phenethylamine that activates serotonin receptors, with preference for 5-HT<sub>2A</sub> over 5-HT<sub>2C</sub> (EC<sub>50</sub> = 4 and 24 μM, respectively).<sup>1</sup> Mescaline NBOMe is a derivative of mescaline having an N-(2-methoxybenzyl) addition at the amine. This addition on related phenethylamines increases the affinity and selectivity for the 5-HT<sub>2A</sub> receptor over other serotonin receptors.<sup>2</sup> The physiological and toxicological properties of this compound are not known. This product is intended for forensic and research applications.

### References

1. Monte, A.P., Waldman, S.R., Marona-Lewicka, D., *et al.* Dihydrobenzofuran analogues of hallucinogens. 4. Mescaline derivatives. *J. Med. Chem.* **40**, 2997-3008 (1997).
2. Braden, M.R., Parrish, J.C., Naylor, J.C., *et al.* Molecular interaction of serotonin 5-HT<sub>2A</sub> receptor residues Phe339<sup>(6,51)</sup> and Phe340<sup>(6,52)</sup> with superpotent N-benzyl phenethylamine agonists. *Mol. Pharm.* **70**(6), 1956-1965(2006).

### Related Products

For a list of related products please visit: [www.caymanchem.com/catalog/9001990](http://www.caymanchem.com/catalog/9001990)

**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.

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