

Certificate of Analysis

Product Name: DOB hydrochloride

Catalog No.: 2863

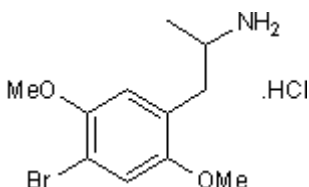
Batch No.: 1

CAS Number: 29705-96-2

IUPAC Name: 4-Bromo-2,5-dimethoxy- α -methylbenzeneethanamine hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₁H₁₆BrNO₂·HCl
Batch Molecular Weight: 310.62
Physical Appearance: White crystalline solid
Solubility: water to 100 mM
Storage: Store at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows >99.8% purity
¹H NMR: Consistent with structure

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Description:

Selective 5-HT₂ receptor agonist (K_i values are 0.44, 59, 69, 831 and 3700 nM for 5-HT_{2H}, 5-HT_{2L}, 5-HT_{2C}, 5-HT_{1B} and 5-HT_{1A} receptors respectively). Hallucinogenic.

Physical and Chemical Properties:

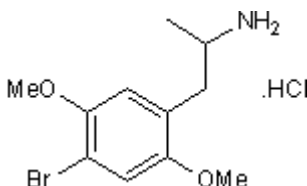
Batch Molecular Formula: C₁₁H₁₆BrNO₂.HCl

Batch Molecular Weight: 310.62

Physical Appearance: White crystalline solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Store at RT

Solubility & Usage Info:

water to 100 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

Other Information:

INFORMATION FOR CUSTOMERS IN THE UK ONLY

This product is a Schedule 1 Home Office controlled substance and customers in the UK are required to hold the relevant licence or be exempt from restrictions in order to purchase and possess this material.

INFORMATION FOR CUSTOMERS IN THE USA ONLY

This product is a Schedule I DEA controlled substance and customers in the USA are required to hold a controlled substance registration in order to purchase and possess this material (in accordance with Title 21 code of federal regulations part 1300 to end).

INFORMATION FOR CUSTOMERS IN CANADA ONLY

This product is a Schedule I CDSA controlled substance and customers in Canada require an import permit to purchase this material.

References:

Titiler *et al* (1987) Selectivity of serotonergic drugs for multiple brain serotonin receptors. *Biochem.Pharmacol.* **36** 3265. PMID: 3663239.

McKenna *et al* (1989) Differentiation of 5-hydroxytryptamine₂ receptor subtypes using ¹²⁵I-R-(-)-2,5-dimethoxy-4-iodophenylisopropylamine and ³H-ketanserin. *J.Neurosci.* **10** 3482.

Arvanov *et al* (1999) A pre- and postsynaptic modulatory action of 5-HT and the 5-HT_{2A,2C} receptor agonist DOB on NMDA-evoked responses in the rat medial prefrontal cortex. *Eur.J.Neurosci.* **11** 2917. PMID: 10457188.

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