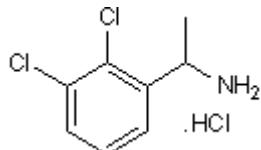


Certificate of Analysiswww.tocris.com**Product Name:** LY 78335**Catalog No.:** 4060**Batch No.:** 1

CAS Number: 39959-66-5

IUPAC Name: 2,3-Dichloro- α -methylbenzylamine hydrochloride**1. PHYSICAL AND CHEMICAL PROPERTIES****Batch Molecular Formula:** C₈H₉Cl₂N.HCl**Batch Molecular Weight:** 226.53**Physical Appearance:** Off-white solid**Solubility:** water to 100 mM with gentle warming
DMSO to 100 mM with gentle warming**Storage:** Desiccate at RT**Batch Molecular Structure:****2. ANALYTICAL DATA****TLC:** R_f = 0.5 (Chloroform:Methanol:Ammonia soln. [80:20:1])**HPLC:** Shows 99.1% purity**¹H NMR:** Consistent with structure**Mass Spectrum:** Consistent with structure**Microanalysis:** Carbon Hydrogen Nitrogen

Theoretical 42.42 4.45 6.18

Found 42.01 4.36 6.04

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

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Product Name: LY 78335**Catalog No.:** 4060**Batch No.:** 1

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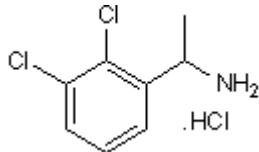
IUPAC Name: 2,3-Dichloro- α -methylbenzylamine hydrochloride**Description:**

High affinity inhibitor of phenylethanolamine-N-methyltransferase (PNMT) ($K_i = 0.09 \mu\text{M}$ in vitro). Suppresses the release of growth hormone in an in vivo rat model.

Physical and Chemical Properties:Batch Molecular Formula: $\text{C}_8\text{H}_9\text{Cl}_2\text{N}\cdot\text{HCl}$

Batch Molecular Weight: 226.53

Physical Appearance: Off-white solid

Minimum Purity: >99%**Batch Molecular Structure:****Storage:** Desiccate at RT**Solubility & Usage Info:**

water to 100 mM with gentle warming
DMSO to 100 mM with gentle warming

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.

References:

Fuller et al (1973) Inhibition of phenylethanolamine N-methyltransferase by benzylamines. 2. In vitro and in vivo studies with 2,3-dichloro- α -methylbenzylamine. *J.Med.Chem.* **16** 106. PMID: 4683104.

Terry et al (1982) Regulation of episodic growth hormone secretion by the central epinephrine system. *J.Clin.Invest.* **69** 104. PMID: 7054231.

Grunewald et al (1988) Synthesis and evaluation of 3-substituted analogues of 1,2,3,4-tetrahydroisoquinoline as inhibitors of phenylethanolamine N-methyltransferase. *J.Med.Chem.* **31** 824. PMID: 3351861.

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