

Certificate of Analysis

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Product Name: CDP 840 hydrochloride

Catalog No.: 3936

Batch No.: 2

IUPAC Name: 4-[(2*R*)-2-[3-(Cyclopentyloxy)-4-methoxyphenyl]-2-phenylethyl]-pyridine hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₅H₂₇NO₂.HCl.¼H₂O

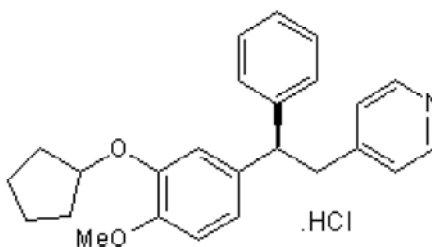
Batch Molecular Weight: 414.45

Physical Appearance: Off-white solid

Solubility: DMSO to 100 mM

Storage: Desiccate at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.5 (Ethyl acetate:Petroleum ether [1:1])

HPLC: Shows 99.4% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Optical Rotation: [α]_D = +39 (Concentration = 0.48, Solvent = Ethanol)

Microanalysis:

	Carbon Hydrogen Nitrogen		
Theoretical	72.45	6.93	3.38
Found	72.23	6.74	3.46

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

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Product Information

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Batch No.: 2

IUPAC Name: 4-[(2R)-2-[3-(Cyclopentyloxy)-4-methoxyphenyl]-2-phenylethyl]-pyridine hydrochloride

Description:

Potent and selective inhibitor of phosphodiesterase (PDE) 4 (IC_{50} = 12 nM for native PDE4). Competitively inhibits all PDE4 isoenzymes (IC_{50} values are 4, 9, 9 and 45 nM for PDE4A, PDE4B, PDE4C and PDE4D human recombinant isoforms expressed in yeast).

Physical and Chemical Properties:

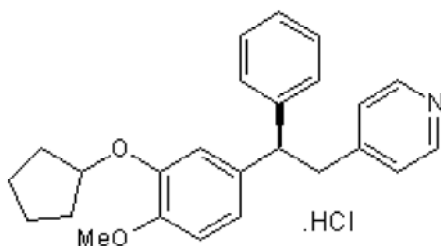
Batch Molecular Formula: $C_{25}H_{27}NO_2 \cdot HCl \cdot \frac{1}{4}H_2O$

Batch Molecular Weight: 414.45

Physical Appearance: Off-white solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Desiccate at RT

Solubility & Usage Info:

DMSO 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.

References:

Cooper et al (1999) A comparison of the inhibitory activity of PDE4 inhibitors on leukocyte PDE4 activity *in vitro* and eosinophil trafficking *in vivo*. *Br.J.Pharmacol.* **126** 1863. PMID: 10372831.

Perry et al (1998) CDP840: a novel inhibitor of PDE-4. *Cell Biochem.Biophys.* **29** 113. PMID: 9631241.

Hughes et al (1996) The inhibition of antigen-induced eosinophilia and bronchoconstriction by CDP840, a novel stereo-selective inhibitor of phosphodiesterase type 4. *Br.J.Pharmacol.* **118** 1183. PMID: 8818342.

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