

Product Name: CIMBA hydrochloride

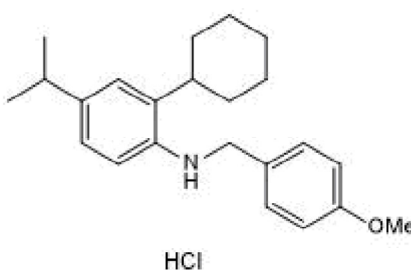
Catalog No.: 7812

Batch No.: 1

IUPAC Name: N-[2-Cyclohexyl-4-(1-methylethyl)phenyl]-4-methoxybenzenemethanamine hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₃H₃₁NO.HCl
Batch Molecular Weight: 373.97
Physical Appearance: White solid
Solubility: DMSO to 100 mM
 ethanol to 100 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.7% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

| | Carbon | Hydrogen | Nitrogen |
|-------------|--------|----------|----------|
| Theoretical | 73.87 | 8.63 | 3.75 |
| Found | 73.49 | 8.64 | 3.52 |

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

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IUPAC Name: N-[2-Cyclohexyl-4-(1-methylethyl)phenyl]-4-methoxybenzenemethanamine hydrochloride

Description:

CIMBA hydrochloride is a potent G protein-coupled estrogen receptor (GPER) antagonist (IC₅₀ = 75 nM). In vivo, it prevents the formation of estrogen-induced cholesterol gallstones by inhibiting the GPER pathway in female ovariectomized mice.

Physical and Chemical Properties:

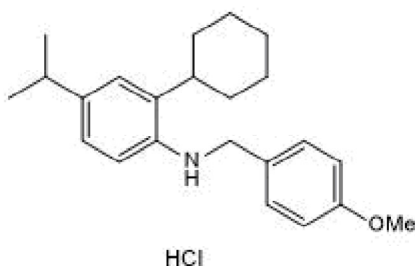
Batch Molecular Formula: C₂₃H₃₁NO.HCl

Batch Molecular Weight: 373.97

Physical Appearance: White solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 100 mM
ethanol 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.

Licensing Information:

Sold under licence from Saint Louis University.

References:

DeLeon et al (2020) A novel GPER antagonist protects against the formation of estrogen-induced cholesterol gallstones in female mice. *J.Lipid Res.* **61** 767. PMID: 32127396.

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