

Certificate of Analysis

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Product Name: Fendiline Hydrochloride

Catalog No.: 6407

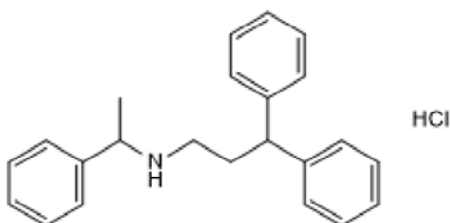
Batch No.: 1

CAS Number: 13636-18-5

IUPAC Name: *N*-(3,3-Diphenylpropyl)- α -methylbenzylamine hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₃H₂₅N.HCl
Batch Molecular Weight: 351.91
Physical Appearance: White solid
Solubility: DMSO to 100 mM
ethanol to 20 mM
Storage: Store at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.5% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	78.5	7.45	3.98
Found	78.51	7.56	3.86

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

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Catalog No.: 6407

Batch No.: 1

CAS Number: 13636-18-5

IUPAC Name: *N*-(3,3-Diphenylpropyl)- α -methylbenzylamine hydrochloride

Description:

K-Ras inhibitor. Selectively inhibits K-Ras localization to the plasma membrane (IC_{50} = 9.64 μ M). Blocks proliferation of cancer cell lines expressing oncogenic mutant K-Ras. Also inhibits L-type calcium channels (IC_{50} = 17 μ M).

Physical and Chemical Properties:

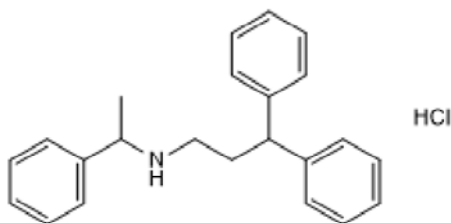
Batch Molecular Formula: $C_{23}H_{25}N.HCl$

Batch Molecular Weight: 351.91

Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info:

DMSO to 100 mM

ethanol to 20 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:

van der Hoeven *et al* (2015) Fendiline inhibits K-Ras plasma membrane localization and blocks K-Ras signal transmission. *Mol.Cell.Biol.* **33** 237. PMID: 23129805.

Tripathi *et al* (1993) Fendiline inhibits L-type calcium channels in guinea-pig ventricular myocytes: a whole-cell patch-clamp study. *Br.J.Pharmacol.* **108** 865. PMID: 8485628.

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