

Product Name: Liarozole hydrochloride

Catalog No.: 2705

Batch No.: 2

CAS Number: 145858-50-0

IUPAC Name: 5-[(3-Chlorophenyl)-1*H*-imidazol-1-ylmethyl]-1*H*-benzimidazole hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₇H₁₃ClN₄·HCl·½H₂O

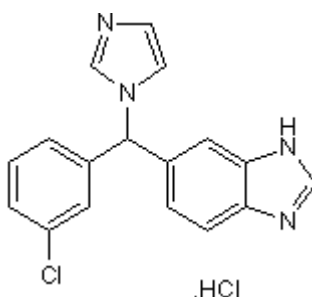
Batch Molecular Weight: 354.24

Physical Appearance: Beige solid

Solubility: DMSO to 50 mM
ethanol to 100 mM

Storage: Desiccate at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.15 (Chloroform:Methanol [10:1])

HPLC: Shows >99.6% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon Hydrogen Nitrogen		
Theoretical	57.64	4.27	15.82
Found	57.96	4.15	15.68

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

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Description:

Cytochrome P450 inhibitor. Inhibits several cytochrome P450 enzymes including aromatase (CYP19) and retinoic acid 4-hydroxylase (CYP26). Blocks retinoic acid metabolism (retinoic acid metabolism blocking agent, RAMBA). Displays antitumor activity against androgen-dependent and independent rat prostate carcinomas.

Physical and Chemical Properties:

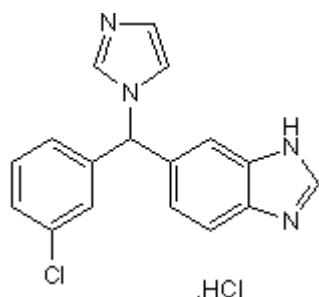
Batch Molecular Formula: C₁₇H₁₃ClN₄.HCl. ½H₂O

Batch Molecular Weight: 354.24

Physical Appearance: Beige solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Desiccate at RT

Solubility & Usage Info:

DMSO to 50 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.

Other Information:

sdasd

References:

Van Wauwe et al (1992) Liarozole, an inhibitor of retinoic acid metabolism, exerts retinoid-mimetic effects *in vivo*. J.Pharmacol.Exp.Ther. **261** 773. PMID: 1374473.

Njar et al (2006) Retinoic acid metabolism blocking agents (RAMBAs) for treatment of cancer and dermatological diseases. Bioorg.Med.Chem. **14** 4323. PMID: 16530416.

Goss et al (2007) Effects of liarozole fumarate (R85246) in combination with tamoxifen on N-methyl-N-nitrosourea (MNU)-induced mammary carcinoma and uterus in the rat model. BMC Cancer **7** 26. PMID: 17266767.

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