

Product Name: Siramesine hydrochloride

Catalog No.: 6740

Batch No.: 1

CAS Number: 224177-60-0

IUPAC Name: 1'-[4-[1-(4-Fluorophenyl)-1*H*-indol-3-yl]butyl]spiro[isobenzofuran-1(3*H*),4'-piperidine hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₃₀H₃₁FN₂O.HCl.¼H₂O

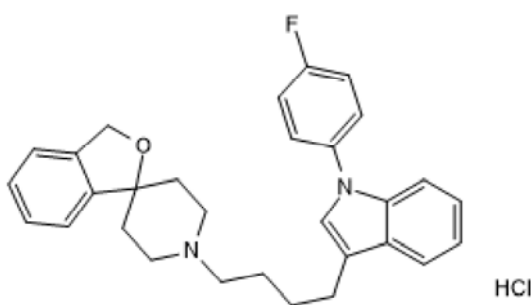
Batch Molecular Weight: 495.54

Physical Appearance: White solid

Solubility: DMSO to 50 mM

Storage: Store at -20°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	72.71	6.61	5.65
Found	72.57	6.57	5.76

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

bio-techne.com

info@bio-techne.com

techsupport@bio-techne.com

North America

Tel: (800) 343 7475

China

info.cn@bio-techne.com

Tel: +86 (21) 52380373

Europe Middle East Africa

Tel: +44 (0)1235 529449

Rest of World

www.tocris.com/distributors

Tel:+1 612 379 2956

Product Name: Siramesine hydrochloride

Catalog No.: 6740

Batch No.: 1

CAS Number: 224177-60-0

IUPAC Name: 1'-[4-[1-(4-Fluorophenyl)-1*H*-indol-3-yl]butyl]spiro[isobenzofuran-1(3*H*),4'-piperidine hydrochloride

Description:

High affinity σ receptor agonist (K_i values are 0.19 and 17 nM for σ_2 and σ_1 receptors, respectively). Displays anxiolytic and antidepressant effects in rodents. Also induces cell death in tumor cell lines.

Physical and Chemical Properties:

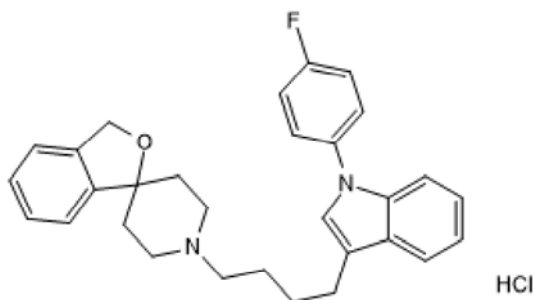
Batch Molecular Formula: C₃₀H₃₁FN₂O.HCl.¼H₂O

Batch Molecular Weight: 495.54

Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 50 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:

Česen et al (2013) Siramesine triggers cell death through destabilisation of mitochondria, but not lysosomes. *Cell Death Des.* **4** e818. PMID: 24091661.

Søby et al (2002) Lu 28-179 labels a σ_2 -site in rat and human brain. *Neuropharmacology.* **43** 95. PMID: 12213263.

Sánchez et al (1997) The selective σ_2 -ligand Lu 28-179 has potent anxiolytic-like effects in rodents. *J.Pharmacol.Exp.Ther.* **283** 1323. PMID: 9400007.

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

bio-techne.com

info@bio-techne.com

techsupport@bio-techne.com

North America

Tel: (800) 343 7475

China

info.cn@bio-techne.com

Tel: +86 (21) 52380373

Europe Middle East Africa

Tel: +44 (0)1235 529449

Rest of World

www.tocris.com/distributors

Tel:+1 612 379 2956