

Product Name: SB 277011A dihydrochloride

Catalog No.: 4207

Batch No.: 4

CAS Number: 1226917-67-4

IUPAC Name: *N*-[*trans*-4-[2-(6-Cyano-3,4-dihydro-2(1*H*)-isoquinolinyl)ethyl]cyclohexyl]-4-quinolinecarboxamide dihydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₈H₃₀N₄O.2HCl.1¼H₂O

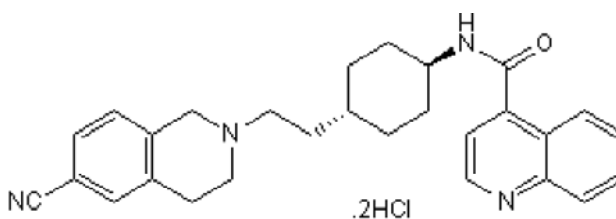
Batch Molecular Weight: 534.01

Physical Appearance: Off White solid

Solubility: DMSO to 50 mM

Storage: Store at +4°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98.9% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen	Chlorine
Theoretical	62.98	6.51	10.49	13.28
Found	63.2	6.11	10.36	12.86

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

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Description:

SB 277011A dihydrochloride is a selective dopamine D₃ receptor antagonist (pK_i values are 8.0, 6.0, 5.0 and <5.2 for D₃, D₂, 5-HT_{1D} and 5-HT_{1B} respectively). Brain penetrant.

Physical and Chemical Properties:

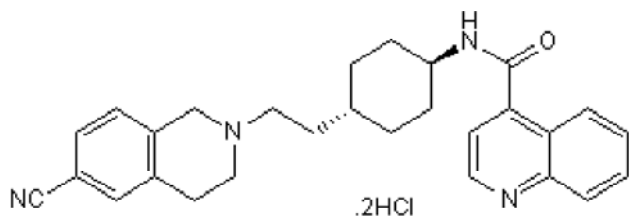
Batch Molecular Formula: C₂₈H₃₀N₄O.2HCl.1¼H₂O

Batch Molecular Weight: 534.01

Physical Appearance: Off White solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Store at +4°C

CAUTION - This product is light sensitive and we recommend that the solid material and any solutions obtained are protected from exposure to light.

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.

Licensing Information:

Sold for research purposes under agreement from GlaxoSmithKline.

References:

Reavill *et al* (2000) Pharmacological actions of a novel, high-affinity, and selective human DA D₃ receptor antagonist, SB-277011-A. *J.Pharmacol.Exp.Ther.* **294** 1154. PMID: 10945872.

Stemp *et al* (2000) Design and synthesis of *trans*-*N*-[4-[2-(6-cyano-1,2,3,4-tetrahydroisoquinolin-2-yl)ethyl]cyclohexyl]-4-quinolinecarboxamide (SB-277011): a potent and selective DA D₃ receptor antagonist with high oral bioavailability and CNS pe. *J.Med.Chem.* **43** 1878. PMID: 10794704.

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