

Certificate of Analysis

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Product Name: B-HT 920

Catalog No.: 2759

Batch No.: 2

CAS Number: 36085-73-1

IUPAC Name: 5,6,7,8-Tetrahydro-6-(2-propen-1-yl)-4H-thiazolo[4,5-d]azepin-2-amine dihydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₀H₁₅N₃S.2HCl.¼H₂O

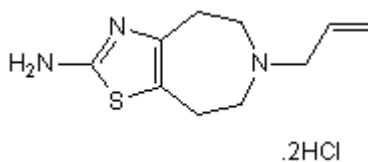
Batch Molecular Weight: 286.73

Physical Appearance: Off-white solid

Solubility: water to 100 mM
DMSO to 100 mM
ethanol to 5 mM

Storage: Desiccate at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

Melting Point: Between 243 - 244°C

HPLC: Shows 99.5% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	41.89	6.15	14.65
Found	42.1	6.01	14.56

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

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Description:

Dopamine D₂ receptor agonist, α₂-adrenoceptor agonist and 5-HT₃ receptor antagonist. Displays antiParkinsonian activity.

Physical and Chemical Properties:

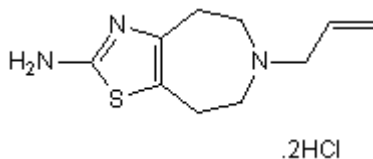
Batch Molecular Formula: C₁₀H₁₅N₃S.2HCl.¼H₂O

Batch Molecular Weight: 286.73

Physical Appearance: Off-white solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Desiccate at RT

Solubility & Usage Info:

water to 100 mM

DMSO to 100 mM

ethanol to 5 mM

CAUTION - This product is very hygroscopic and we recommend that it is desiccated upon arrival.

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:

Robertson *et al* (1993) In vivo comparisons of the effects of quinpirole and the putative presynaptic dopaminergic agonists B-HT 920 and SND 919 on striatal dopamine and acetylcholine release. *J.Pharmacol.Exp.Ther.* **264** 1344. PMID: 8095550.

Nishio *et al* (1996) 5-HT₃ receptor blocking properties of the antiParkinsonian agent, talipexole. *Gen.Pharmacol.* **27** 779. PMID: 8842679.

Ricci and Taira (1999) Adrenoceptor involvement in the cardiovascular responses to B-HT 920 in sinoaortic denervated rats. *Gen.Pharmacol.* **32** 29. PMID: 9888250.

Maina and Mathews (2010) A functional fast scan cyclic voltammetry assay to characterize dopamine D2 and D3 autoreceptors in the mouse striatum. *ACS Chem.Neurosci.* **1** 450. PMID: 20567609.

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