

Certificate of Analysis

Product Name: Talsupram hydrochloride

Catalog No.: 4352

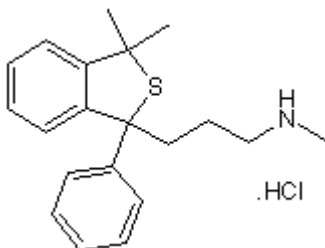
Batch No.: 1

CAS Number: 25487-28-9

IUPAC Name: 1,3-Dihydro-N,3,3-trimethyl-1-phenylbenzo[c]thiophene-1-propanamine hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₀H₂₅NS.HCl
Batch Molecular Weight: 347.95
Physical Appearance: White solid
Solubility: water to 20 mM
DMSO to 100 mM
Storage: Desiccate at RT
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.25 (Dichloromethane:Methanol [98:2])
HPLC: Shows 98.7% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	69.04	7.53	4.03
Found	68.73	7.23	4.31

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

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Description:

Selective noradrenalin re-uptake inhibitor; exhibits a high affinity for the human noradrenalin transporter (NET) against SERT and DAT (IC₅₀ values are 0.79, 850 and 9300 nM for inhibition of monoamine uptake by NET, SERT and DAT respectively). Antidepressant.

Physical and Chemical Properties:

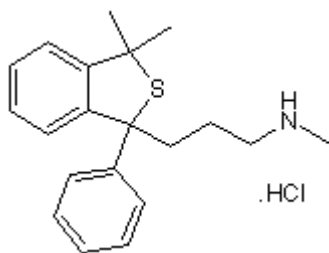
Batch Molecular Formula: C₂₀H₂₅NS.HCl

Batch Molecular Weight: 347.95

Physical Appearance: White solid

Minimum Purity: >98%

Batch Molecular Structure:



References:

McConathy et al (2004) Synthesis and biological evaluation of [¹¹C]talopram and [¹¹C]talsupram: candidate PET ligands for the norepinephrine transporter. *Nucl.Med.Biol.* **31** (6) 705. PMID: 15246361.

Rowlett et al (2004) Cocaine-like discriminative stimulus effects of heroin: modulation by selective monoamine transport inhibitors. *J.Pharmacol.Exp.Ther.* **310** 342. PMID: 14985417.

Schou et al (2006) Synthesis and positron emission tomography evaluation of three norepinephrine transporter radioligands: [C-11]desipramine, [C-11]talopram and [C-11]talsupram. *Mol.Imaging Biol.* **8** 1.

Storage: Desiccate at RT

Solubility & Usage Info:

water to 20 mM
DMSO 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.

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