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Certificate of Analysis

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Product Name: AMT hydrochloride

Catalog No.: 0871 Batch No.: 3

CAS Number:21463-31-0IUPAC Name:2-Amino-5,6-dihydro-6-methyl-4H-1,3-thiazine hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: Batch Molecular Weight: Physical Appearance: Solubility: Storage: Batch Molecular Structure: C₅H₁₀N₂S.HCl 166.67 White solid water to 10 mM Desiccate at +4°C

Me .HCI NH₂

2. ANALYTICAL DATA

TLC:	$R_{f} = 0.25$ (Dichloromethane:Methanol [1:4])				
Melting Point:	Between 147 - 149°C				
¹ H NMR:	Consistent with structure				
Microanalysis:	Carbon Hydrogen Nitrogen				
	Theoretical 36.03 6.65 16.81 0 0 0				
	Found 35.92 6.68 16.67 0.00				

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

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Product Name: AMT hydrochloride

CAS Number:	21463-31-0
IUPAC Name:	2-Amino-5,6-dihydro-6-methyl-4H-1,3-thiazine hydrochloride

Description:

Potent, selective and reversible inhibitor of iNOS (IC_{50} = 3.6 nM; approximately 30 and 40 times selective over nNOS and eNOS respectively).

Physical and Chemical Properties:

Batch Molecular Formula: C₅H₁₀N₂S.HCl Batch Molecular Weight: 166.67 Physical Appearance: White solid

Batch Molecular Structure:



Storage: Desiccate at +4°C

Solubility & Usage Info: water to 10 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).

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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:

Nakane et al (1995) Novel potent and selective inhibitors of inducible nitric oxide synthase. Mol. Pharmacol. 47 831. PMID: 7536889.

Yu et al (2005) Inhibition of sarcoplasmic reticular function by chronic interleukin-6 exposure via iNOS in adult ventricular myocytes. J.Physiol. **566** 327. PMID: 15845578.

Liao et al (2006) Nitric oxide signaling in stretch-induced apoptosis of neonatal rat cardiomyocytes. FASEB J. 20 E1196. PMID: 16877524.

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