

Certificate of Analysis

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Product Name: TAME hydrochloride

Catalog No.: 4506

Batch No.: 1

CAS Number: 1784-03-8

EC Number: 217-235-1

IUPAC Name: *N*²-[(4-Methylphenyl)sulfonyl]-L-arginine methyl ester hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₄H₂₂N₄O₄S.HCl

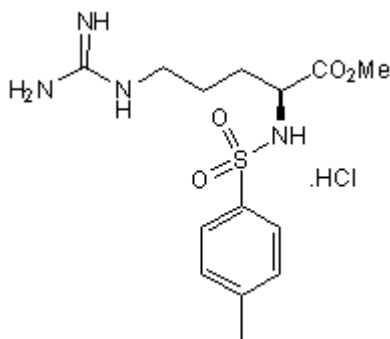
Batch Molecular Weight: 378.87

Physical Appearance: White solid

Solubility: water to 100 mM
DMSO to 100 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

Melting Point: At 149°C

HPLC: Shows 100% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Optical Rotation: [α]_D = -14.1 (Concentration = 4, Solvent = Water)

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	44.38	6.12	14.79
Found	44.4	6.13	14.73

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

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Description:

Competitive inhibitor of the ubiquitin ligase anaphase-promoting complex/cyclosome (APC/C); promotes Cdc20 autoubiquitination. Inhibits cyclin proteolysis in mitotic *Xenopus* oocyte extracts (IC₅₀ = 12 μM) and blocks cyclin degradation in interphase extract.

Physical and Chemical Properties:

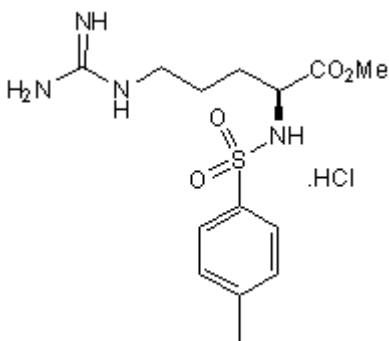
Batch Molecular Formula: C₁₄H₂₂N₄O₄S.HCl

Batch Molecular Weight: 378.87

Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:



References:

Zeng *et al* (2010) Pharmacologic inhibition of the anaphase-promoting complex induces a spindle checkpoint-dependent mitotic arrest in the absence of spindle damage. *Cancer Cell*. **18** 382. PMID: 20951947.

Zeng & King (2012) An APC/C inhibitor stabilizes cyclin B1 by prematurely terminating ubiquitination. *Nat.Chem.Biol.* **8** 383. PMID: 22366722.

Storage: Store at -20°C

Solubility & Usage Info:

water to 100 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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