

Certificate of Analysis

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Product Name: WR 1065 dihydrochloride

Catalog No.: 3356

Batch No.: 1

CAS Number: 14653-77-1

IUPAC Name: 2-[(3-Aminopropyl)amino]ethanethiol dihydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₅H₁₄N₂S.2HCl

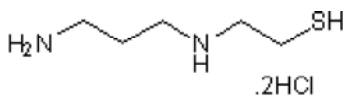
Batch Molecular Weight: 207.16

Physical Appearance: White solid

Solubility: water to 100 mM
DMSO to 100 mM

Storage: Desiccate at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

Melting Point: Between 193 - 197°C

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	28.99	7.78	13.52
Found	29.38	7.77	12.9

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

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Description:

Cell-permeable reactive oxygen species scavenger that activates p53 through a JNK-dependent signaling pathway. Activates p21^{waf-1} and MDM2, represses transcription of Myc and thymidine kinase, and inhibits DNA topoisomerase II α . Induces cell cycle arrest and exhibits cytoprotective activity towards normal cells but not cancer cells in vivo. Also exhibits broad spectrum antiviral activity in vitro.

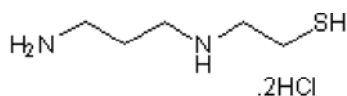
Physical and Chemical Properties:

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Batch Molecular Weight: 207.16

Physical Appearance: White solid

Batch Molecular Structure:



Storage: Desiccate at -20°C

Solubility & Usage Info:

water to 100 mM

DMSO to 100 mM

CAUTION - This product is sensitive to oxidation. We recommend that solutions are stored frozen and kept under inert atmosphere.

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:

Walker et al (2009) WR1065 mitigates AZT-ddl-induced mutagenesis and inhibits viral replication. *Environ.Mol.Mutagen.* **50** 460.

Pluquet et al (2003) The cytoprotective aminothiols WR1065 activates p53 through a non-genotoxic signaling pathway involving c-Jun N-terminal kinase. *J.Biol.Chem.* **278** 11879. PMID: 12531896.

North et al (2000) The cytoprotective aminothiols WR1065 activates p21^{waf-1} and down regulates cell cycle progression through a p53-dependent pathway. *Oncogene* **19** 1206. PMID: 10713709.

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