

Certificate of Analysis

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Product Name: MDL 72527

Catalog No.: 3709

Batch No.: 1

CAS Number: 93565-01-6

IUPAC Name: *N*¹,*N*⁴-Di-2,3-butadienyl-1,4-butanediamine dihydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₂H₂₀N₂.2HCl

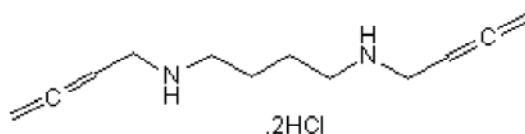
Batch Molecular Weight: 265.23

Physical Appearance: Pale pink solid

Solubility: water to 100 mM
DMSO to 75 mM

Storage: Store at +4°C

Batch Molecular Structure:



2. ANALYTICAL DATA

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

Carbon Hydrogen Nitrogen

Theoretical 54.34 8.36 10.56

Found 54.29 8.44 10.53

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

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Product Information

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CAS Number: 93565-01-6

IUPAC Name: *N*¹,*N*⁴-Di-2,3-butadienyl-1,4-butanediamine dihydrochloride

Description:

Polyamine oxidase (POA) inhibitor. Does not inhibit monoamine oxidase or D-Amino acid oxidase. Displays anticancer and neuroprotective activity in vivo.

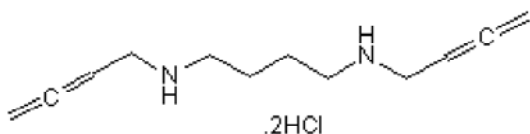
Physical and Chemical Properties:

Batch Molecular Formula: C₁₂H₂₀N₂.2HCl

Batch Molecular Weight: 265.23

Physical Appearance: Pale pink solid

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info:

water to 100 mM

DMSO to 75 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.

References:

Basu et al (2009) A small molecule polyamine oxidase inhibitor blocks androgen-induced oxidative stress and delays prostate cancer progression in the transgenic adenocarcinoma of the mouse prostate model. *Cancer Res.* **69** 7689. PMID: 19773450.

Dogan et al (1999) Effects of MDL 72527, a specific inhibitor of polyamine oxidase, on brain edema, ischemic injury volume, and tissue polyamine levels in rats after temporary middle cerebral artery occlusion. *J.Neurochem.* **72** 765. PMID: 9930751.

Bey et al (1985) N-2,3-butadienyl-1,4-butanediamine derivatives: potent irreversible inactivators of mammalian polyamine oxidase. *J.Med.Chem.* **28** 1. PMID: 3965702.

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