

Certificate of Analysis

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Product Name: Sephin 1

Catalog No.: 5553

Batch No.: 1

CAS Number: 1883549-35-6

IUPAC Name: (2E)-2-[(2-Chlorophenyl)methylene]-hydrazinecarboximidamide carbonic acid salt

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₈H₉ClN₄.CH₂O₃

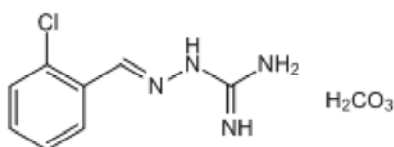
Batch Molecular Weight: 258.66

Physical Appearance: Off White solid

Solubility: DMSO to 100 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.3% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	41.79	4.29	21.66
Found	41.81	4.29	21.42

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

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Description:

Inhibitor of the regulatory subunit PPP1R15A of protein phosphatase 1. Does not bind PPP1R15B or have $\alpha 2$ adrenergic agonist activity. Cytoprotective in endoplasmic reticulum stressed cells in vitro. Prevents defects associated with protein misfolding in a mouse Charcot-Marie Tooth-1B model. Orally available.

Physical and Chemical Properties:

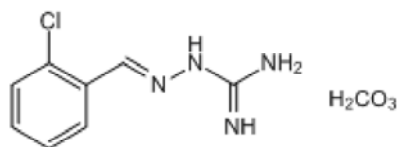
Batch Molecular Formula: C₈H₉ClN₄.CH₂O₃

Batch Molecular Weight: 258.66

Physical Appearance: Off White solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

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.

References:

Das *et al* (2015) Preventing proteostasis diseases by selective inhibition of a phosphatase regulatory subunit. *Science* **348** 239. PMID: 25859045.

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