

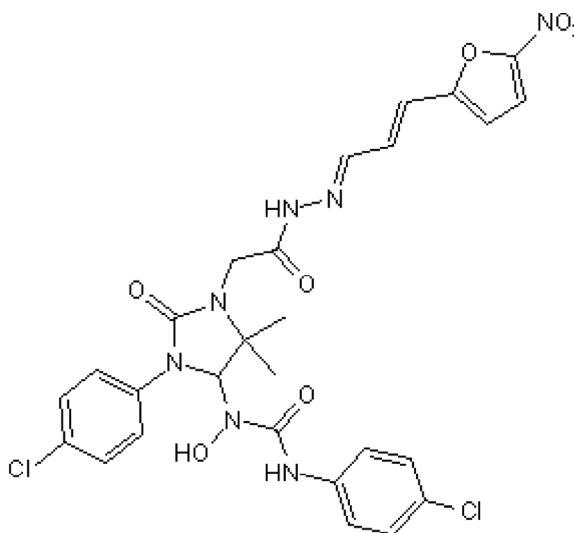
Certificate of Analysis

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Product Name: Eeyarestatin I **Catalog No.:** 3922 **Batch No.:** 7
CAS Number: 412960-54-4
IUPAC Name: 3-(4-Chlorophenyl)-4-[[[(4-chlorophenyl)amino]carbonyl]hydroxyamino]-5,5-dimethyl-2-oxo-1-imidazolidineacetic acid 2-[3-(5-nitro-2-furanyl)-2-propen-1-ylidene]hydrazide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₇H₂₅Cl₂N₇O₇·1/4H₂O
Batch Molecular Weight: 634.94
Physical Appearance: Yellow solid
Solubility: DMSO to 100 mM
Storage: Store at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.1% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	51.07	4.05	15.44
Found	50.21	4.03	15

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

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Description:

Eeyarestatin I is a potent inhibitor of endoplasmic reticulum associated protein degradation (ERAD). Specifically targets the p97-associated deubiquitinating process (PAD) and inhibits ataxin-3 (atx3)-dependent deubiquitination. Also inhibits Sec61-mediated protein translocation at the ER. Displays cytotoxic activity preferentially against cancer cells; induces cell death via the proapoptotic protein NOXA. Also enhances adeno-associated viral transduction in multiple cells types.

Physical and Chemical Properties:

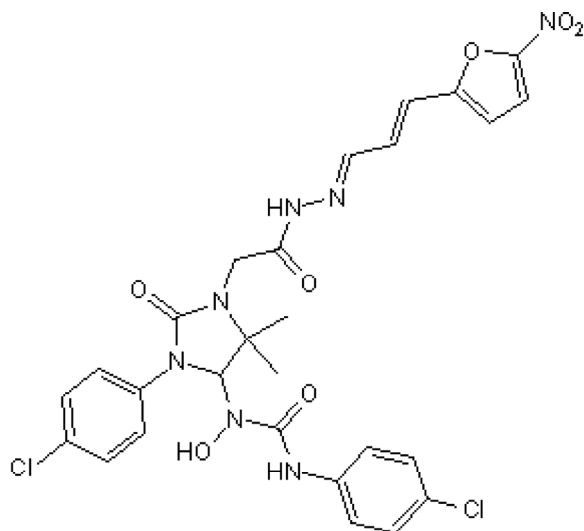
Batch Molecular Formula: C₂₇H₂₅Cl₂N₇O₇·½H₂O

Batch Molecular Weight: 634.94

Physical Appearance: Yellow solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Store at +4°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. *Unless contradicted by product-specific protocols or instructions, our standard recommendations apply:

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:

Berry and Asokan *et al* (2016) Chemical modulation of endocytic sorting augments adeno-associated viral transduction. *J.Biol.Chem.* **291** 939. PMID: 26527686.

Aletrari *et al* (2011) Eeyarestatin 1 interferes with both retrograde and anterograde intracellular trafficking pathways. *PLoS One* **6** e22713. PMID: 21799938.

Cross *et al* (2009) Eeyarestatin I inhibits Sec61-mediated protein translocation at the endoplasmic reticulum. *J.Cell Science* **122** 4393.

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