

Product Name: 4EGI-1

Catalog No.: 4800

Batch No.: 1

CAS Number: 315706-13-9

IUPAC Name: α -[2-[4-(3,4-Dichlorophenyl)-2-thiazolyl]hydrazinylidene]-2-nitro-benzenepropanoic acid

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₈H₁₂Cl₂N₄O₄S

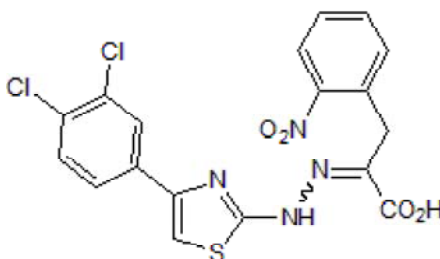
Batch Molecular Weight: 451.28

Physical Appearance: Beige solid

Solubility: DMSO to 100 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.3 (Chloroform:Methanol [9:1])

HPLC: Shows 99.1% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	47.91	2.68	12.42
Found	48.08	2.7	12.37

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

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Description:

Inhibitor of eIF4E:eIF4G interaction; prevents eIF4E binding to eIF4G. Binds eIF4E and inhibits cap-dependent translation but not initiation factor-independent translation. Exhibits activity against Jurkat and A549 cells.

Physical and Chemical Properties:

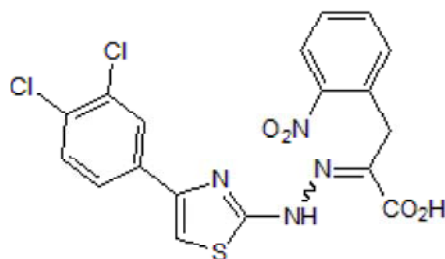
Batch Molecular Formula: C₁₈H₁₂Cl₂N₄O₄S

Batch Molecular Weight: 451.28

Physical Appearance: Beige solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at -20°C

CAUTION - This product is light sensitive and we recommend that the solid material and any solutions obtained are protected from exposure to light.

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:

Gkogkas *et al* (2013) Autism-related deficits via dysregulated eIF4E-dependent translational control. *Nature* **493** 371. PMID: 23172145.

Moerke *et al* (2007) Small-molecule inhibition of the interaction between the translation initiation factors eIF4E and eIF4G. *Cell* **128** 257. PMID: 17254965.

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