

Product Name: 4E1RCat

Catalog No.: 4215

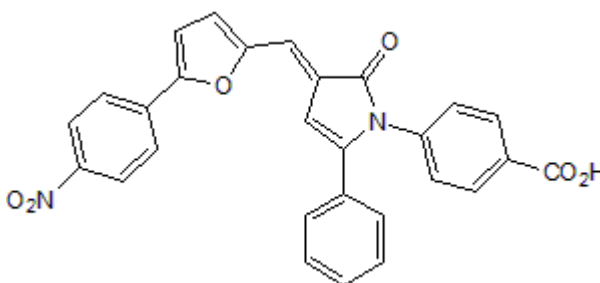
Batch No.: 1

CAS Number: 328998-25-0

IUPAC Name: 4-[(3E)-3-[[5-(4-Nitrophenyl)furan-2-yl]methylidene]-2-oxo-5-phenyl-2,3-dihydro-1H-pyrrol-1-yl]benzoic acid

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₈H₁₈N₂O₆
Batch Molecular Weight: 478.45
Physical Appearance: Brown solid
Solubility: DMSO to 50 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98.2% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	70.29	3.79	5.86
Found	70.06	3.72	5.9

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

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Description:

Inhibitor of protein translation; blocks eIF4E:eIF4G and eIF4E:4E-BP1 interaction. Prevents assembly of the eIF4F complex and inhibits cap-dependent translation (IC₅₀ ~4 μM). Exhibits chemosensitizing properties.

Physical and Chemical Properties:

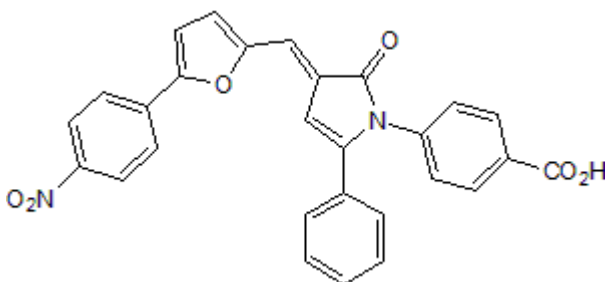
Batch Molecular Formula: C₂₈H₁₈N₂O₆

Batch Molecular Weight: 478.45

Physical Appearance: Brown solid

Minimum Purity: >98%

Batch Molecular Structure:



References:

Cencic et al (2010) Reversing chemoresistance by small molecule inhibition of the translation initiation complex eIF4F. *Proc.Natl.Acad.Sci.USA* **108** 1046.

Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 50 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.

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