

Product Name: eIF4A i28

Catalog No.: 7810

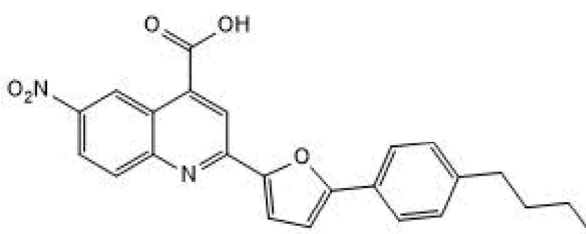
Batch No.: 1

CAS Number: 2861994-92-3

IUPAC Name: 2-(5-(4-Butylphenyl)furan-2-yl)-6-nitroquinoline-4-carboxylic acid

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₄H₂₀N₂O₅
Batch Molecular Weight: 416.43
Physical Appearance: Orange solid
Solubility: DMSO to 20 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.8% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	69.22	4.84	6.73
Found	68.45	4.85	6.62

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

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Description:

eIF4A i28 is a eukaryotic initiation factor-4A (eIF4A) inhibitor (IC₅₀ = 8.60 μM in an eIF4A ATPase assay). It decreases BJAB Burkitt lymphoma cell viability (EC₅₀ = 0.46 μM in a CellTiter-Glo (CTG) luminescence cell viability assay. It acts as an RNA-competitive, ATP-uncompetitive eIF4A inhibitor.

Physical and Chemical Properties:

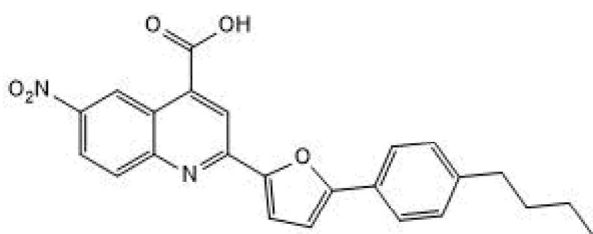
Batch Molecular Formula: C₂₄H₂₀N₂O₅

Batch Molecular Weight: 416.43

Physical Appearance: Orange 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 20 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.

Licensing Information:

Sold under license from the University of Arizona

References:

Zerio *et al* (2021) Discovery of an eIF4A inhibitor with a novel mechanism of action. *J.Med.Chem.* **64** 15727. PMID: 34676755.

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