

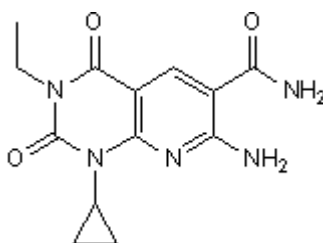
Certificate of Analysis

www.tocris.com

Product Name: A 484954 **Catalog No.:** 4483 **Batch No.:** 1
CAS Number: 142557-61-7
IUPAC Name: 7-Amino-1-cyclopropyl-3-ethyl-1,2,3,4-tetrahydro-2,4-dioxypyrido[2,3-d]pyrimidine-6-carboxamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₃H₁₅N₅O₃
Batch Molecular Weight: 289.29
Physical Appearance: Off-white solid
Solubility: DMSO to 10 mM
Storage: Store at +4°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	53.97	5.23	24.21
Found	53.71	5.21	24.12

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

Product Name: A 484954

Catalog No.: 4483

Batch No.: 1

CAS Number: 142557-61-7

IUPAC Name: 7-Amino-1-cyclopropyl-3-ethyl-1,2,3,4-tetrahydro-2,4-dioxopyrido[2,3-d]pyrimidine-6-carboxamide

Description:

Inhibitor of eukaryotic elongation factor-2 (eEF-2) kinase (IC₅₀ = 0.28 μM in enzymatic assay). Reduces eEF-2 phosphorylation with little effect on cancer cell growth.

Physical and Chemical Properties:

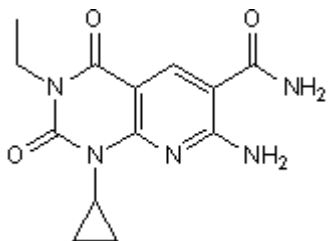
Batch Molecular Formula: C₁₃H₁₅N₅O₃

Batch Molecular Weight: 289.29

Physical Appearance: Off-white solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info:

DMSO to 10 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:

Chen et al (2011) 1-Benzyl-3-cetyl-2-methylimidazolium iodide (NH125) induces phosphorylation of eukaryotic elongation factor-2 (eEF2): a cautionary note on the anticancer mechanism of an eEF2 kinase inhibitor. *J.Biol.Chem.* **286** 43951. PMID: 22020937.

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

bio-techne.com

info@bio-techne.com

techsupport@bio-techne.com

North America

Tel: (800) 343 7475

China

info.cn@bio-techne.com

Tel: +86 (21) 52380373

Europe Middle East Africa

Tel: +44 (0)1235 529449

Rest of World

www.tocris.com/distributors

Tel: +1 612 379 2956