

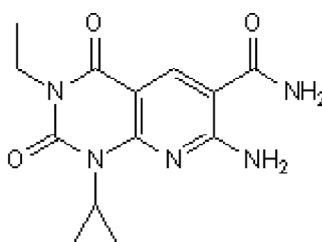
# Certificate of Analysis

[www.tocris.com](http://www.tocris.com)

**Product Name:** A 484954 **Catalog No.:** 4483 **Batch No.:** 2  
**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:** C<sub>13</sub>H<sub>15</sub>N<sub>5</sub>O<sub>3</sub>  
**Batch Molecular Weight:** 289.29  
**Physical Appearance:** White solid  
**Solubility:** DMSO to 10 mM  
**Storage:** Store at +4°C  
**Batch Molecular Structure:**



## 2. ANALYTICAL DATA

**HPLC:** Shows 99.0% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure  
**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	53.97	5.23	24.21
Found	53.76	5.35	24.29

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

## Product Information

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### Description:

A 484954 is an inhibitor of eukaryotic elongation factor-2 (eEF-2) kinase ( $IC_{50}$  = 0.28  $\mu$ M in enzymatic assay). Reduces eEF-2 phosphorylation with little effect on cancer cell growth.

### Physical and Chemical Properties:

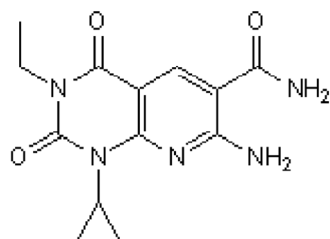
Batch Molecular Formula:  $C_{13}H_{15}N_5O_3$

Batch Molecular Weight: 289.29

Physical Appearance: White solid

**Minimum Purity:**  $\geq 98\%$

### 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. \*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:

**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.

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