

## Certificate of Analysis

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**Product Name:** HFI 142

**Catalog No.:** 5627

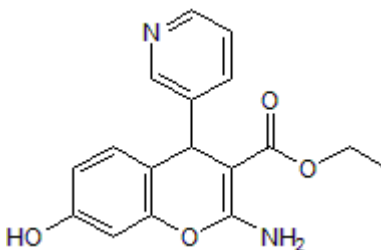
**Batch No.:** 1

CAS Number: 332164-34-8

IUPAC Name: Ethyl 2-amino-7-hydroxy-4-(3-pyridinyl)-4H-1-benzopyran-3-carboxylate

### 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>17</sub>H<sub>16</sub>N<sub>2</sub>O<sub>4</sub>  
**Batch Molecular Weight:** 312.32  
**Physical Appearance:** White solid  
**Solubility:** DMSO to 100 mM  
 ethanol to 10 mM with gentle warming  
**Storage:** Store at -20°C  
**Batch Molecular Structure:**



### 2. ANALYTICAL DATA

**HPLC:** Shows 99.1% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure  
**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	65.38	5.16	8.97
Found	65.21	5.17	8.85

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

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**Description:**

Insulin-regulated aminopeptidase (IRAP) inhibitor ( $K_i = 2.01 \mu\text{M}$ ). Improves memory in control and memory-deficient mice models.

**Physical and Chemical Properties:**

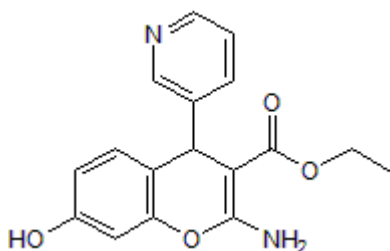
Batch Molecular Formula:  $\text{C}_{17}\text{H}_{16}\text{N}_2\text{O}_4$

Batch Molecular Weight: 312.32

Physical Appearance: White solid

**Minimum Purity:** >98%

**Batch Molecular Structure:**



**Storage:** Store at  $-20^\circ\text{C}$

**Solubility & Usage Info:**

DMSO to 100 mM

ethanol to 10 mM with gentle warming

**Stability and Solubility Advice:**

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a  $45\text{-}60^\circ\text{C}$  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  $-20^\circ\text{C}$  or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

**References:**

**Albiston et al** (2010) Phenylalanine-544 plays a key role in substrate and inhibitor binding by providing a hydrophobic packing point at the active site of insulin-regulated aminopeptidase. *Mol.Pharmacol.* **78** 600. PMID: 20628006.

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