

Certificate of Analysis

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Product Name: PA 8

Catalog No.: 6657

Batch No.: 2

CAS Number: 878437-15-1

IUPAC Name: 2-Amino-5,8-dihydro-5-[3-methoxy-4-(2-propen-1-yloxy)phenyl]pyrido[2,3-*d*]pyrimidine-4,7(3*H*,6*H*)-dione

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₇H₁₈N₄O₄.

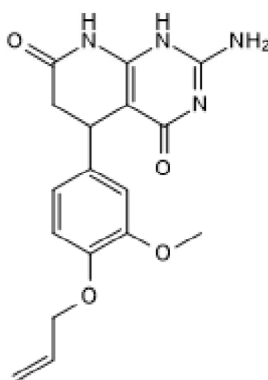
Batch Molecular Weight: 342.35

Physical Appearance: White solid

Solubility: DMSO to 50 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.0 % purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

Carbon Hydrogen Nitrogen

Theoretical 58.83 5.24 16.24

Found 59.64 5.3 16.37

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

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Description:

PA 8 is a PAC₁ receptor antagonist. Inhibits PACAP-induced CREB phosphorylation in PAC₁, but not VPAC₁ or VPAC₂, expressing cells. Also inhibits PACAP-induced increases in cAMP levels in vitro (IC₅₀ = 2 nM) and PACAP-induced aversive responses and mechanical allodynia following intrathecal injection in vivo.

Physical and Chemical Properties:

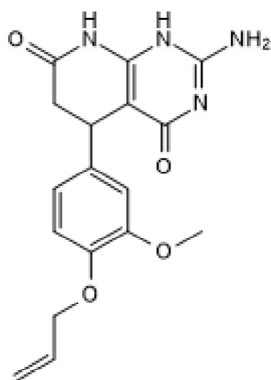
Batch Molecular Formula: C₁₇H₁₈N₄O₄.

Batch Molecular Weight: 342.35

Physical Appearance: White solid

Minimum Purity: ≥98%

Batch Molecular Structure:



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. *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:

Takasaki et al (2018) *In silico* screening identified novel small-molecule antagonists of PAC₁ receptor. J.Pharmacol.Exp.Ther. **365** 1. PMID: 29363578.

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