

Product Name: AP C5

Catalog No.: 6626

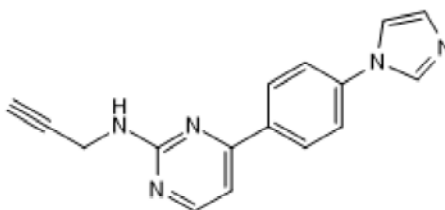
Batch No.: 1

CAS Number: 2234272-10-5

IUPAC Name: 4-[4-(1*H*-Imidazol-1-yl)phenyl]-*N*-2-propyn-1-yl-2-pyrimidinamine

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₆H₁₃N₅
Batch Molecular Weight: 275.31
Physical Appearance: Pale beige solid
Solubility: DMSO to 100 mM
 1eq. HCl to 100 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.5 (Dichloromethane:Methanol [9:1])
HPLC: Shows 99% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	69.8	4.76	25.44
Found	69.7	4.73	25.35

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

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Description:

Potent and selective protein kinase G type II (PKG2) inhibitor ($pI_{C_{50}} = 7.2$). Displays >20-fold selectivity for PKG2 over PKG1 and PKA ($pI_{C_{50}}$ values are 4.6 and 4.8 for PKG1 and PKA, respectively). Blocks 8-pCPT-cGMP-dependent VASP phosphorylation in intestinal organoids. Also attenuates toxin-stimulated anion secretory responses in mouse intestinal tissue.

Physical and Chemical Properties:

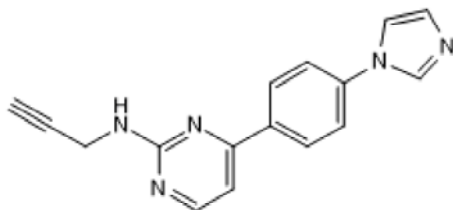
Batch Molecular Formula: C₁₆H₁₃N₅

Batch Molecular Weight: 275.31

Physical Appearance: Pale beige solid

Minimum Purity: >98%

Batch Molecular Structure:



References:

Bijvelds *et al* (2018) Selective inhibition of intestinal guanosine 3',5'-cyclic monophosphate signaling by small-molecule protein kinase inhibitors. *J.Biol.Chem.* **293** 8173. PMID: 29653944.

Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 100 mM

1eq. HCl to 100 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.

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