

Certificate of Analysis

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Product Name: PHA 767491 hydrochloride

Catalog No.: 3140

Batch No.: 3

CAS Number: 942425-68-5

IUPAC Name: 1,5,6,7-Tetrahydro-2-(4-pyridinyl)-4H-pyrrolo[3,2-c]pyridin-4-one hydrochloride

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₂H₁₁N₃O.HCl.2H₂O

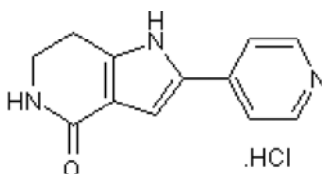
Batch Molecular Weight: 285.73

Physical Appearance: Yellow solid

Solubility: water to 100 mM
DMSO to 100 mM

Storage: Desiccate at RT

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.5% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	50.44	5.64	14.71
Found	50.32	5.83	14.52

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

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Description:

ATP-competitive cyclin-dependent kinase (cdk) inhibitor (reported IC₅₀ values are 0.034 - 0.75, 0.24 - 1.2, 0.25 - 1.1 and 0.46 - 1 μM for cdk9, cdk2, cdk1 and cdk5, respectively). Also inhibits mitogen-activated protein kinase-activated protein kinase-2 (MK2; IC₅₀ = 171 nM). Prevents initiation of DNA replication. Inhibits cell proliferation in a variety of human cell lines and induces apoptosis in a p53-independent manner in vivo.

Physical and Chemical Properties:

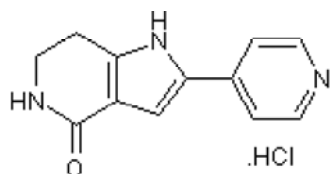
Batch Molecular Formula: C₁₂H₁₁N₃O.HCl.2H₂O

Batch Molecular Weight: 285.73

Physical Appearance: Yellow solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Desiccate at RT

Solubility & Usage Info:

water to 100 mM

DMSO 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.

References:

Jorda et al (2018) How selective are pharmacological inhibitors of cell-cycle-regulating cyclin-dependent kinases? *J.Med.Chem.* **61** 9105. PMID: 30234987 .

Jackson (2008) Stopping replication, at the beginning. *Nature Chem.Biol.* **4** 331.

Montagnoli et al (2008) A cdc7 kinase inhibitor restricts initiation of DNA replication and has antitumour activity. *Nature Chem.Biol.* **4** 357.

Anderson et al (2007) Pyrrolopyridine inhibitors of mitogen-activated protein kinase-activated protein kinase 2 (MK-2). *J.Med.Chem.* **50** 2647. PMID: 17480064.

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