

Product Name: PCI 29732

Catalog No.: 5012

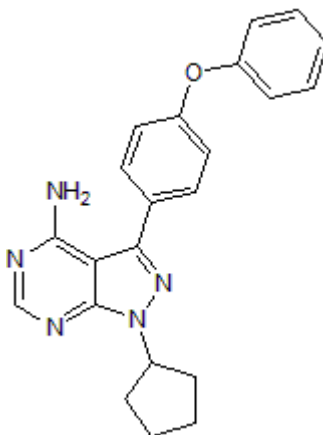
Batch No.: 1

CAS Number: 330786-25-9

IUPAC Name: 1-Cyclopentyl-3-(4-phenoxyphenyl)-1*H*-pyrazolo[3,4-*d*]pyrimidin-4-amine

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₂H₂₁N₅O
Batch Molecular Weight: 371.44
Physical Appearance: Cream solid
Solubility: DMSO to 100 mM
 ethanol to 50 mM
Storage: Store at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.3 (Dichloromethane:Methanol [95:5])
HPLC: Shows 99.7% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	71.14	5.7	18.85
Found	70.89	5.64	18.69

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

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Description:

Potent BTK inhibitor (IC₅₀ = 0.3 nM). Blocks B cell antigen receptor (BCR)-mediated gene expression in CD20⁺ B cells.

Physical and Chemical Properties:

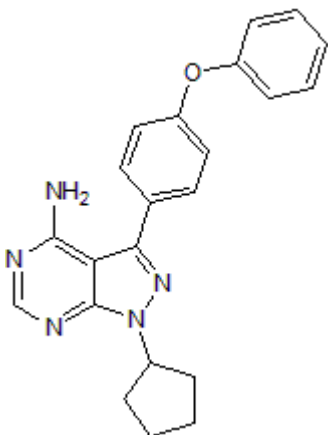
Batch Molecular Formula: C₂₂H₂₁N₅O

Batch Molecular Weight: 371.44

Physical Appearance: Cream solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info:

DMSO to 100 mM

ethanol 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. 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:

Honigberg et al (2010) The Bruton tyrosine kinase inhibitor PCI-32765 blocks B-cell activation and is efficacious in models of autoimmune disease and B-cell malignancy. *Proc.Natl.Acad.Sci.U.S.A.* **107** 13075. PMID: 20615965.

Krishnamurty et al (2013) Active site profiling reveals coupling between domains in SRC-family kinases. *Nat.Chem.Biol.* **9** 43. PMID: 23143416.

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