

Certificate of Analysis

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Product Name: (S)-C33

Catalog No.: 6035

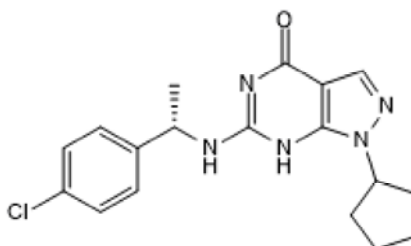
Batch No.: 1

CAS Number: 2066488-39-7

IUPAC Name: 6-[[[(1S)-1-(4-Chlorophenyl)ethyl]amino]-1-cyclopentyl-1,5-dihydro-4H-pyrazolo[3,4-d]pyrimidin-4-one

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula:	C ₁₈ H ₂₀ ClN ₅ O
Batch Molecular Weight:	357.84
Physical Appearance:	Off White solid
Solubility:	DMSO to 100 mM ethanol to 100 mM
Storage:	Store at +4°C
Batch Molecular Structure:	



2. ANALYTICAL DATA

TLC:	R _f = 0.51 (Ethyl acetate)
HPLC:	Shows 99.4% purity
Chiral HPLC:	Shows 100% purity
¹H NMR:	Consistent with structure
Mass Spectrum:	Consistent with structure

Microanalysis:	Carbon Hydrogen Nitrogen		
Theoretical	60.42	5.63	19.57
Found	60.48	5.64	19.65

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

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Product Information

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Description:

Potent PDE9 inhibitor (IC₅₀ = 11 nM).

Physical and Chemical Properties:

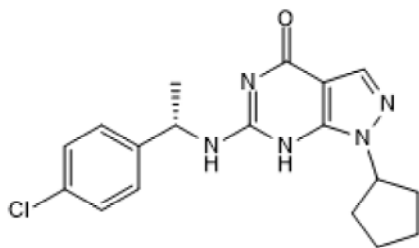
Batch Molecular Formula: C₁₈H₂₀ClN₅O

Batch Molecular Weight: 357.84

Physical Appearance: Off White solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info:

DMSO to 100 mM

ethanol 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:

Huang *et al* (2015) Structural asymmetry of phosphodiesterase-9A and a unique pocket for selective binding of a potent enantiomeric inhibitor. *Mol.Pharmacol.* **88** 836. PMID: 26316540.

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