

Product Name: CVT 313

Catalog No.: 6174

Batch No.: 1

CAS Number: 199986-75-9

IUPAC Name: 2,2'-[[6-[[[(4-Methoxyphenyl)methyl]amino]-9-(1-methylethyl)-9H-purin-2-yl]imino]bis[ethanol]

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₀H₂₈N₆O₃·¼H₂O

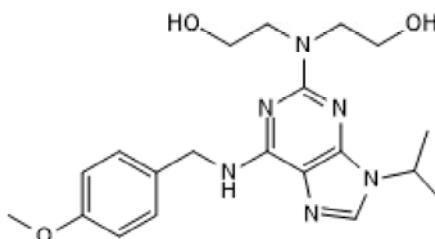
Batch Molecular Weight: 404.97

Physical Appearance: White solid

Solubility: DMSO to 100 mM
ethanol to 100 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98.2% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	59.32	7.09	20.75
Found	59.23	7.15	20.94

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

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Description:

CVT 313 is a cyclin-dependent kinase 2 (cdk2) inhibitor (reported IC₅₀ values are 0.18 to 0.5 μM). Also inhibits cdk5 in sub-micromolar range (IC₅₀ = 0.42 μM). Displays >7-fold selectivity for cdk2 and cdk5 over other cdk's. Inhibits proliferation rat neonatal aortic smooth muscle cells and a range of tumor cells lines in vitro. Inhibits restenosis in a rat carotid artery injury model.

Physical and Chemical Properties:

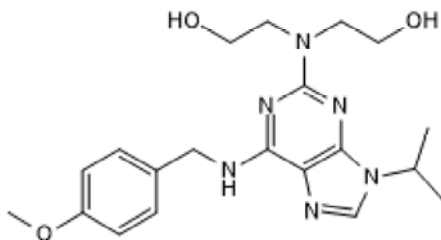
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Batch Molecular Weight: 404.97

Physical Appearance: White solid

Minimum Purity: ≥98%

Batch Molecular Structure:



References:

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

Brooks et al (1997) CVT-313, a specific and potent inhibitor of CDK2 that prevents neointimal proliferation. *J.Biol.Chem.* **272** 29207. PMID: 9360999.

Storage: Store at -20°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.

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