

Product Name: (R)-CR8

Catalog No.: 3605

Batch No.: 1

CAS Number: 294646-77-8

IUPAC Name: 2-(R)-(1-Ethyl-2-hydroxyethylamino)-6-(4-(2-pyridyl)benzyl)-9-isopropylpurine

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₄H₂₉N₇O.3HCl.1¼H₂O

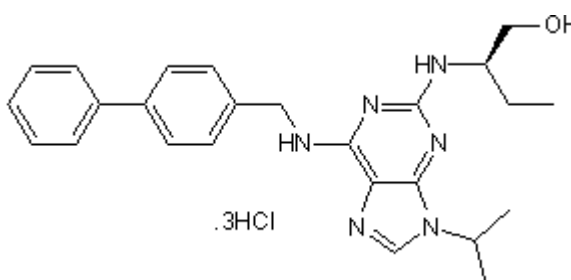
Batch Molecular Weight: 563.44

Physical Appearance: White solid

Solubility: water to 100 mM
DMSO to 100 mM

Storage: Store at +4°C

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.55 (Chloroform:Methanol:Ammonia soln. [10:1:0.1])

HPLC: Shows 99.5% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	51.16	6.17	17.4
Found	51.08	6.05	17.61

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Description:

Inhibitor of cyclin-dependent kinase (cdk) and casein kinase 1 (CK1) (IC₅₀ values are 0.13 μM for cdk1/cyclin B and cdk5/p25; and 0.6 μM for CK1).

Physical and Chemical Properties:

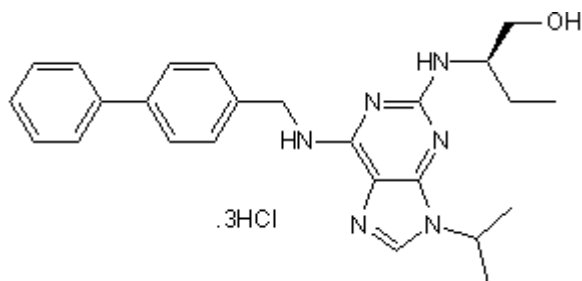
Batch Molecular Formula: C₂₄H₂₉N₇O.3HCl.1¼H₂O

Batch Molecular Weight: 563.44

Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Store at +4°C

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:

Oumata et al (2008) Roscovitine-derived, dual-specificity inhibitors of cyclin-dependent kinases and casein kinases 1. *J.Med.Chem.* **51** 5229. PMID: 18698753.

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