

Product Name: SR 3029

Catalog No.: 5767

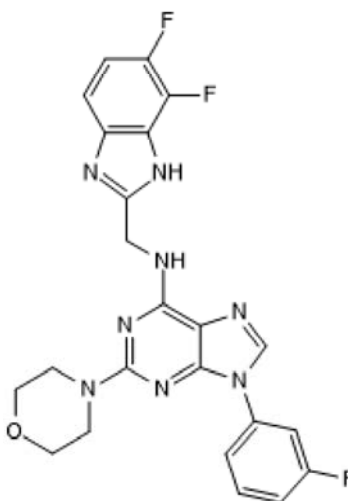
Batch No.: 1

CAS Number: 1454585-06-8

IUPAC Name: *N*-((6,7-Difluoro-1*H*-benzo[*d*]imidazol-2-yl)methyl)-9-(3-fluorophenyl)-2-morpholino-9*H*-purin-6-amine

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₃H₁₉F₃N₈O
Batch Molecular Weight: 480.45
Physical Appearance: Off White solid
Solubility: DMSO to 20 mM
Storage: Store at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.05 (Ethyl acetate:Methanol [9:1])
HPLC: Shows 99.6% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	57.5	3.99	23.32
Found	57.61	3.97	23.19

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

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Description:

Potent and selective CK1δ and CK1ε inhibitor (IC₅₀ values are 44 and 260 nM, respectively). Exhibits selectivity for CK1δ and CK1ε over a panel of other kinases. Inhibits proliferation of melanoma and breast cancer cell lines in vitro. Also inhibits growth of breast tumor xenografts in mice.

Physical and Chemical Properties:

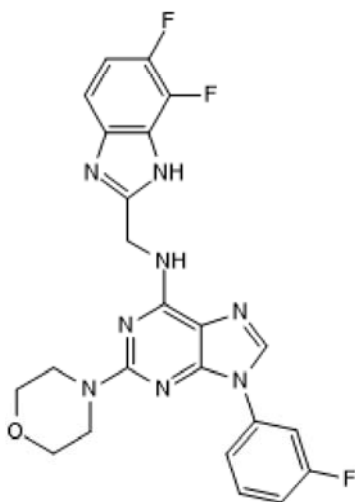
Batch Molecular Formula: C₂₃H₁₉F₃N₈O

Batch Molecular Weight: 480.45

Physical Appearance: Off White solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info:

DMSO to 20 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:

Rosenberg et al (2015) Therapeutic targeting of casein kinase 1δ in breast cancer. *Sci.Transl.Med.* **7** 318. PMID: 26676609.

Bibian et al (2013) Development of highly selective casein kinase 1δ/1ε (CK1δ/ε) inhibitors with potent antiproliferative properties. *Bioorg.Med.Chem.Lett.* **23** 4374. PMID: 23787102.

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