

Product Name: Cyclapolin 9

Catalog No.: 3116

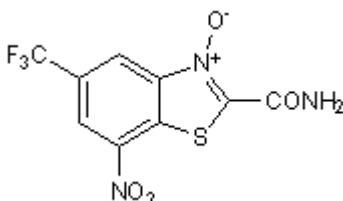
Batch No.: 1

CAS Number: 40533-25-3

IUPAC Name: 7-Nitro-5-(trifluoromethyl)-2-benzothiazolecarboxamide-3-oxide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₉H₄F₃N₃O₄S
Batch Molecular Weight: 307.21
Physical Appearance: Pale yellow solid
Solubility: DMSO to 25 mM
ethanol to 10 mM
Storage: Desiccate at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

Melting Point: Between 222 - 223°C
HPLC: Shows >99% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	35.19	1.31	13.68
Found	35.6	1.21	13.65

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

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Description:

Selective, ATP-competitive polo-like kinase 1 (PLK1) inhibitor (IC₅₀ = 500 nM).

Physical and Chemical Properties:

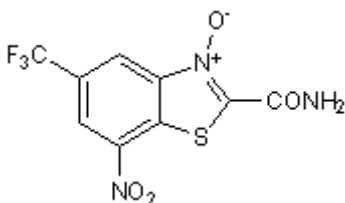
Batch Molecular Formula: C₉H₄F₃N₃O₄S

Batch Molecular Weight: 307.21

Physical Appearance: Pale yellow solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Desiccate at +4°C

Solubility & Usage Info:

DMSO to 25 mM

ethanol to 10 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:

McInnes et al (2006) Inhibitors of polo-like kinase reveal roles in spindle pole maintenance. *Nature Chem.Biol.* **2** 608.

Taylor et al (2008) Ligand discovery and virtual screening using the program LIDAEUS. *Br.J.Pharmacol.* **153** S55. PMID: 18037921.

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