

**Product Name:** ARRY 520 trifluoroacetate

**Catalog No.:** 4676

**Batch No.:** 1

CAS Number: 1781834-99-8

IUPAC Name: (2*S*)-2-(3-Aminopropyl)-5-(2,5-difluorophenyl)-*N*-methoxy-*N*-methyl-2-phenyl-1,3,4-thiadiazole-3(2*H*)-carboxamide trifluoroacetate

## 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>20</sub>H<sub>22</sub>F<sub>2</sub>N<sub>4</sub>O<sub>2</sub>S.CF<sub>3</sub>CO<sub>2</sub>H

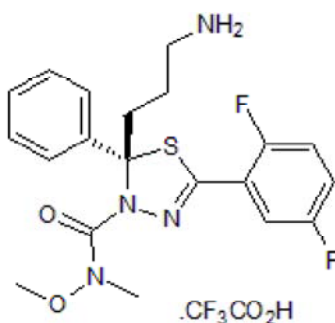
**Batch Molecular Weight:** 420.48

**Physical Appearance:** Off-white solid

**Solubility:** DMSO to 75 mM  
ethanol to 75 mM

**Storage:** Store at -20°C

**Batch Molecular Structure:**



## 2. ANALYTICAL DATA

**HPLC:** Shows 99.2% purity

**Chiral HPLC:** Shows 99.1% purity

**<sup>1</sup>H NMR:** Consistent with structure

**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	49.44	4.34	10.48
Found	49.79	4.43	10.56

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

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**Description:**

Potent kinesin spindle protein (KSP) inhibitor (IC<sub>50</sub> = 6 nM); selective for KSP over >250 other receptors and kinases at a concentration of 10 μM. Displays robust antitumor activity in bortezomib-resistant xenografts either alone or in combination with bortezomib. Induces degradation of Mcl-1; exhibits comparable cytotoxic activity to taxol (Cat. No. 1097) in epithelial ovarian cancer cells. Active in vivo.

**Physical and Chemical Properties:**

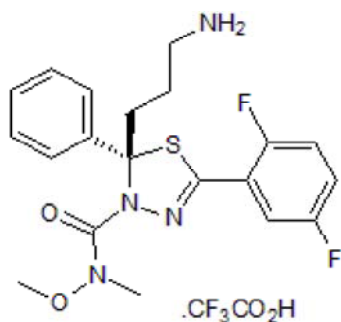
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Batch Molecular Weight: 420.48

Physical Appearance: Off-white solid

**Minimum Purity:** >98%

**Batch Molecular Structure:**



**Storage:** Store at -20°C

**Solubility & Usage Info:**

DMSO to 75 mM

ethanol to 75 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:**

**Tunquist et al** (2010) Mcl-1 stability determines mitotic cell fate of human multiple myeloma tumor cells treated with the kinesin spindle protein inhibitor ARRY-520. *Mol.Cancer.Ther.* **9** 2046. PMID: 20571074.

**Kim et al** (2009) KSP inhibitor ARRY-520 as a substitute for PacT. in type I ovarian cancer cells. *J.Transl.Med.* **7** 63. PMID: 19619321.

**Woessner et al** (2009) ARRY-520, a novel KSP inhibitor with potent activity in hematological and taxane-resistant tumor models. *Anticancer Res.* **29** 4373. PMID: 20032381.

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