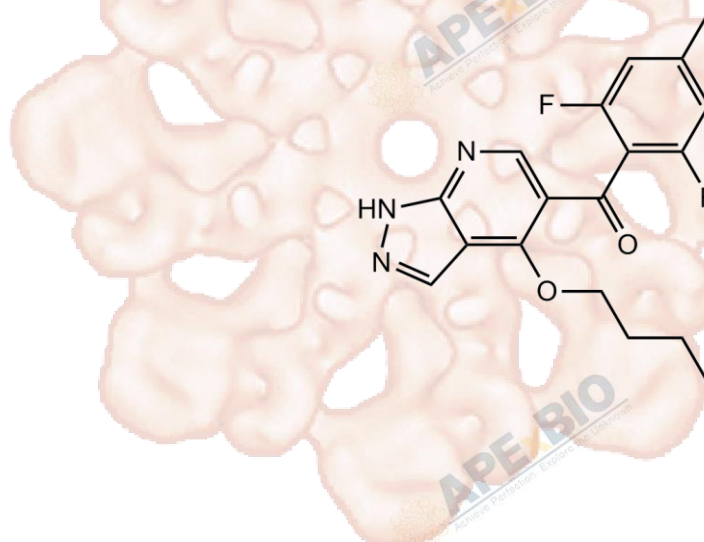


# Product Data Sheet

## BMS265246

<b>Cat. No.:</b>	A8385
<b>CAS No.:</b>	582315-72-8
<b>Formula:</b>	C <sub>18</sub> H <sub>17</sub> F <sub>2</sub> N <sub>3</sub> O <sub>2</sub>
<b>M.Wt:</b>	345.34
<b>Synonyms:</b>	
<b>Target:</b>	Cell Cycle/Checkpoint
<b>Pathway:</b>	Cyclin-Dependent Kinases
<b>Storage:</b>	Store at -20°C



## Solvent & Solubility

insoluble in H<sub>2</sub>O; insoluble in EtOH; ≥17.25 mg/mL in DMSO

In Vitro

Preparing Stock Solutions	Solvent	Mass		
		1mg	5mg	10mg
	<b>Concentration</b>			
	<b>1 mM</b>	2.8957 mL	14.4785 mL	28.9570 mL
	<b>5 mM</b>	0.5791 mL	2.8957 mL	5.7914 mL
	<b>10 mM</b>	0.2896 mL	1.4478 mL	2.8957 mL

Please refer to the solubility information to select the appropriate solvent.

## Biological Activity

Shortsummary

CDK1/2 inhibitor, potent and selective

IC<sub>50</sub> & Target

6 nM (CDK1/CyclinB), 9 nM (CDK2/CyclinE), 230 nM (CDK4/CyclinD)

In Vitro

### Cell Viability Assay

Cell Line: HCT-116 cells

Preparation method: The solubility of this compound in DMSO is >10 mM. General tips for obtaining a higher concentration: Please warm the tube at 37 °C for 10 minutes and/or shake it in the ultrasonic bath for a while. Stock solution can be stored below -20 °C for several months.

Reacting conditions: 0.293 ~ 0.492 μM

	Applications:	In HCT-116 cells, BMS265246 blocked the cell proliferation with EC50 values ranging from 0.293 to 0.492 $\mu$ M. Compared with R-547 group, BMS265246 group had a higher proportion of G2-apoptotic cells. BMS265246 treatment resulted in low DNA intensity, large round nuclei and 4N DNA content in the dominant cell population-G2 arrested cells.
In Vivo	<b>Animal experiment</b>	
	Applications:	

## Product Citations

See more customer validations on [www.apexbt.com](http://www.apexbt.com).

## References

[1]. Sutherland JJ, Low J, Blosser W et al. A robust high-content imaging approach for probing the mechanism of action and phenotypic outcomes of cell-cycle modulators. Mol Cancer Ther. 2011 Feb;10(2):242-54.

## Caution

**FOR RESEARCH PURPOSES ONLY.**

**NOT FOR HUMAN, VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.**

Specific storage and handling information for each product is indicated on the product datasheet. Most APEx BIO products are stable under the recommended conditions. Products are sometimes shipped at a temperature that differs from the recommended storage temperature. Shortterm storage of many products are stable in the short-term at temperatures that differ from that required for long-term storage. We ensure that the product is shipped under conditions that will maintain the quality of the reagents. Upon receipt of the product, follow the storage recommendations on the product data sheet.

**APEx BIO Technology**

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