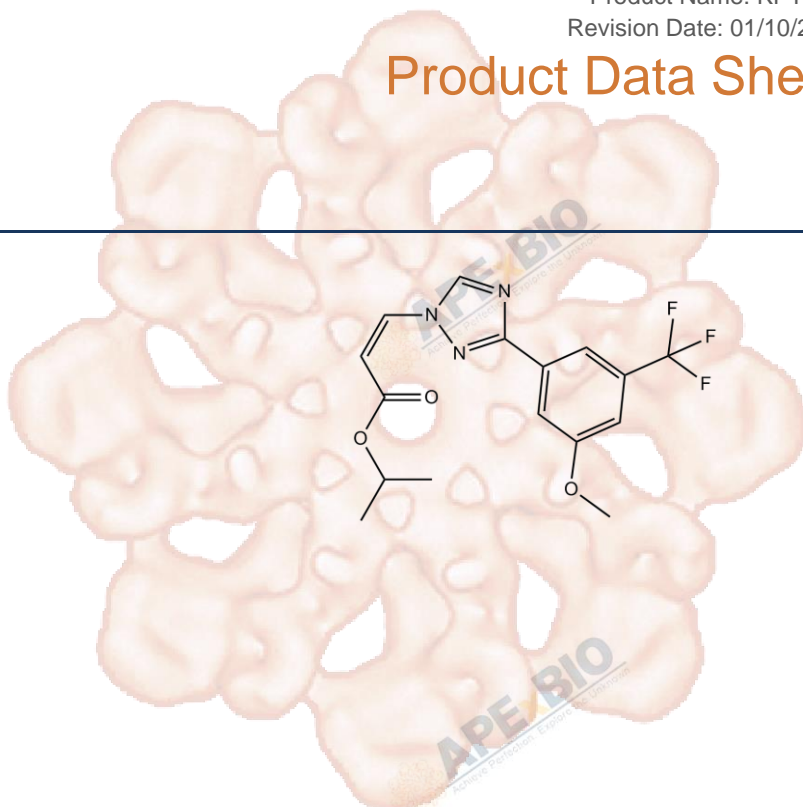


Product Data Sheet

KPT-185

Cat. No.:	B1462
CAS No.:	1333151-73-7
Formula:	C ₁₆ H ₁₆ F ₃ N ₃ O ₃
M.Wt:	355.31
Synonyms:	
Target:	Cell Cycle/Checkpoint
Pathway:	CRM1
Storage:	Store at -20°C



Solvent & Solubility

insoluble in H₂O; ≥17.77 mg/mL in DMSO; ≥25.2 mg/mL in EtOH

In Vitro

Preparing Stock Solutions	Solvent		Mass		
	Concentration		1mg	5mg	10mg
	1 mM		2.8144 mL	14.0722 mL	28.1444 mL
	5 mM		0.5629 mL	2.8144 mL	5.6289 mL
	10 mM		0.2814 mL	1.4072 mL	2.8144 mL

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

Biological Activity

Shortsummary

CRM1 inhibitor, selective and irreversible

IC₅₀ & Target

Cell Viability Assay

In Vitro

Cell Line:	AML cell lines MV4-11, MOLM-13, OCI-AML3, Kasumi-1, KG1a, Thp-1; pancreatic cancer cells
Preparation method:	The solubility of this compound in DMSO is >17.8mg/mL. 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:	IC50: 100 nM-500 nM, 24h
	Applications:	Submicromolar concentrations of KPT-185 inhibited leukemia cell proliferation, with IC50 values ranging from 100nM to 500nM. KPT-185 induced cell-cycle arrest at G1 in MV4-11, OCI/AML3, and MOLM-13 cells at 24 hours. KPT-185 inhibited cell proliferation and induced apoptosis in primary AML blasts. KPT-185 treatment decreased c-KIT protein level in Kasumi-1 and OCI-AML3 cells. KPT-185 inhibited proliferation and promoted apoptosis of pancreatic cancer cells.
In Vivo	Animal experiment	
	Applications:	
	Other notes:	Please test the solubility of all compounds indoor, and the actual solubility may slightly differ with the theoretical value. This is caused by an experimental system error and it is normal.

Product Citations

See more customer validations on www.apexbt.com.

References

- [1]. Ranganathan P, Yu X, Na C, et al. Preclinical activity of a novel CRM1 inhibitor in acute myeloid leukemia[J]. Blood, 2012, 120(9): 1765-1773.
- [2]. Azmi A S, Aboukameel A, Bao B, et al. Selective inhibitors of nuclear export block pancreatic cancer cell proliferation and reduce tumor growth in mice[J]. Gastroenterology, 2013, 144(2): 447-456.

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. Short-term 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.

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