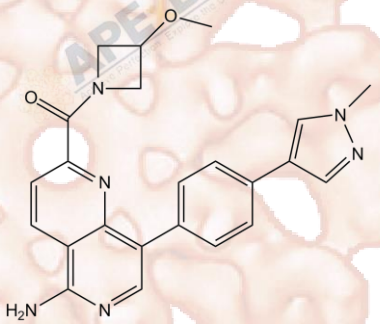
Product Data Sheet

CCT251545 analogue, Compound 51

Cat. No.: A8739
CAS No.: N/A
Formula: C23H22N6O2
M.Wt: 414.46
Synonyms:
Target: Cell Cycle/Checkpoint
Pathway: Cyclin-Dependent Kinases
Storage: Store at -20°C



Solvent & Solubility

In Vitro

≥20.7 mg/mL in DMSO with gentle warming; insoluble in H2O; insoluble in EtOH

Preparing Stock Solutions

Mass / Solvent / Concentration	1mg	5mg	10mg
1 mM	2.4128 mL	12.0639 mL	24.1278 mL
5 mM	0.4826 mL	2.4128 mL	4.8256 mL
10 mM	0.2413 mL	1.2064 mL	2.4128 mL

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

Biological Activity

Shortsummary	Potent, Selective, orally bioavailable CDK 8/19 Inhibitor
IC_{50} & Target	

In Vitro

Cell Viability Assay

Cell Line:	SW620 cells
Preparation method:	This compound is soluble in DMSO. 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:	N/A

	Applications:	In human colorectal carcinoma SW620 cells harboring an activating APC-mutation, CCT251545 analogue, Compound 51 potently inhibited phospho-STAT1SER727.
In Vivo	**Animal experiment**	
	Animal models:	Mice bearing human colorectal carcinoma SW620 cells
	Dosage form:	5 mg/kg; p.o.; b.i.d.
	Applications:	In mice bearing human colorectal carcinoma SW620 cells, CCT251545 analogue, Compound 51, reduced phospho-STAT1SER727 level in a time-dependent manner. At the dose of 5 mg/kg, a b.i.d. schedule would be required in order to achieve the maximal inhibitory effect.
	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]. Mallinger A, Schiemann K, Rink C, et al. 2,8-Disubstituted-1,6-Naphthyridines and 4,6-Disubstituted-Isoquinolines with Potent, Selective Affinity for CDK8/19. ACS Med Chem Lett. 2016 Mar 28;7(6):573-8.

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 APExBIO 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.

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