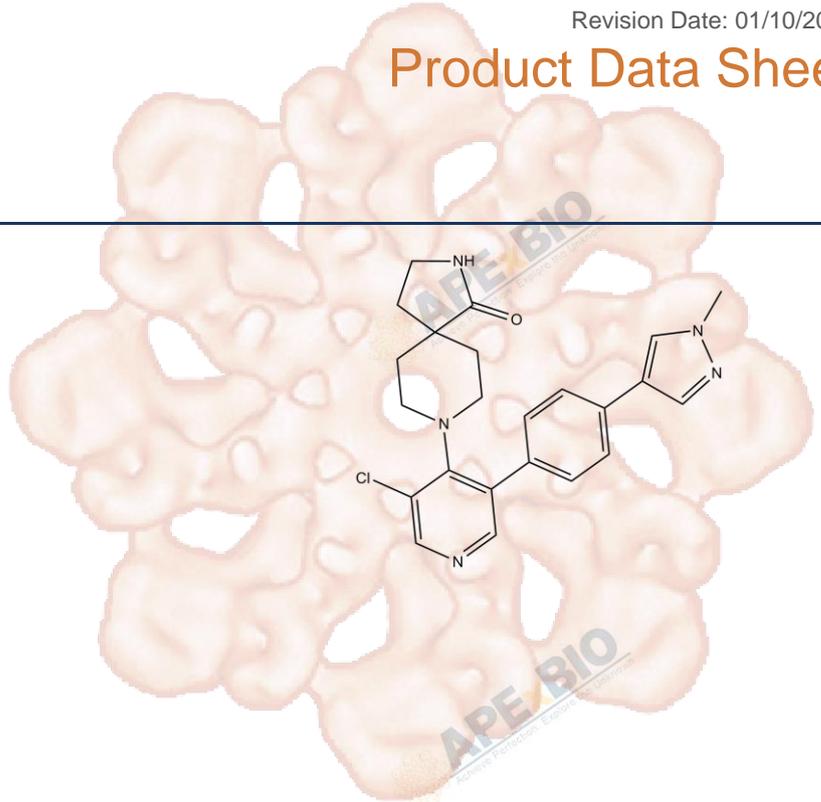


Product Data Sheet

CCT251545

Cat. No.:	B5979
CAS No.:	1661839-45-7
Formula:	C23H24ClN5O
M.Wt:	421.92
Synonyms:	
Target:	Stem Cell
Pathway:	Wnt/ β -catenin
Storage:	Store at -20°C



Solvent & Solubility

≥ 42.2 mg/mL in DMSO; insoluble in H₂O; ≥ 2.33 mg/mL in EtOH with ultrasonic

In Vitro

Preparing Stock Solutions	Mass			
	Solvent Concentration	1mg	5mg	10mg
	1 mM	2.3701 mL	11.8506 mL	23.7012 mL
	5 mM	0.4740 mL	2.3701 mL	4.7402 mL
	10 mM	0.2370 mL	1.1851 mL	2.3701 mL

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

Biological Activity

Shortsummary

Orally bioavailable and potent WNT signaling inhibitor

IC₅₀ & Target

Cell Viability Assay

In Vitro

Cell Line:	APC mutant human colorectal cancer cell line (COLO205-F1756 clone 4)
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:	0.035 μ M

	Applications:	In COLO205-F1756 clone 4, CCT251545 potently inhibited WNT pathway activity, with the IC50 value of 0.035 μ M. Moreover, CCT251545 did not affect endogenous levels of TCF1 or TCF4.
In Vivo	Animal experiment	
	Animal models:	Mice bearing COLO205-F1756 clone 4 xenografts
	Dosage form:	70 mg/kg; p.o.; b.i.d., for 9 days
	Applications:	In mice bearing COLO205-F1756 clone 4 xenografts, CCT251545 (70 mg/kg; p.o.; b.i.d., for 9 days) substantially inhibited WNT signaling and reduced tumor weights by 37.5%.
	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, Crumpler S, Pichowicz M, et al. Discovery of potent, orally bioavailable, small-molecule inhibitors of WNT signaling from a cell-based pathway screen. *J Med Chem*, 2015, 58(4): 1717-1735.

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.



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