

Product Name: Vincristine sulfate Revision Date: 08/04/2022

Product Data Sheet

Vincristine sulfate

Cat. No.: A1765

CAS No.: 2068-78-2

Formula: C46H58N4O14S

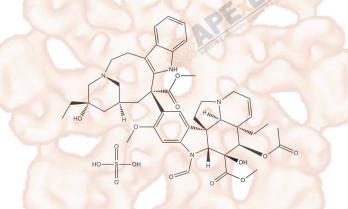
M.Wt: 923.04

Synonyms:

Target: Cell Cycle/Checkpoint

Pathway: Microtubule/Tubulin

Storage: Store at -20°C



Solvent & Solubility

≥46.15mg/mL in DMSO

In Vitro

Preparing Stock Solutions	Mass			
	Solvent	1mg	5mg	10mg
	Concentration			
	1 mM	1.0834 mL	5.4169 mL	10.8338 mL
	5 mM	0.2167 mL	1.0834 mL	2.1668 mL
-10	10 mM	0.1083 mL	0.5417 mL	1.0834 mL

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

Biological Activity

Shortsummary	Microtubule disrupter,antitumor agent		
IC ₅₀ & Target			
In Vitro	Cell Viability Assay		
	Cell Line:	B16 melanoma cell	
	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:	10 ~ 100 nM; 3 days	
	Applications:	In B16 melanoma cells, Vincristine inhibited the tubulin addition at assembly	

		ends of steady-state microtubules with the Ki value of 85 nM.				
In Vivo	Animal experiment	Animal experiment				
	Animal models:	Mice bearing human rhabdomyosarcoma xenografts Rh12 or Rh18				
	Dosage form:	3 mg/kg; i.p.; a single dose				
	Applications:	In mice bearing human rhabdomyosarcoma xenografts Rh12 or Rh18, Vincristine (3 mg/kg, i.p., a single dose) induced mean growth delay of > 120 and > 52 days, as well as repopulating fractions of 0.06% and 5%, respectively.				
	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]. Jordan MA, Himes RH, Wilson L. Comparison of the effects of vinblastine, vincristine, vindesine, and vinepidine on microtubule dynamics and cell proliferation in vitro. Cancer Res. 1985 Jun;45(6):2741-7.
- [2]. Baguley BC, Holdaway KM, Thomsen LL, Zhuang L, Zwi LJ. Inhibition of growth of colon 38 adenocarcinoma by vinblastine and colchicine: evidence for a vascular mechanism. Eur J Cancer. 1991;27(4):482-7.

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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