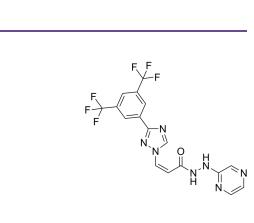
Selinexor

Cat. No.:	HY-17536		
CAS No.:	1393477-72-9		
Molecular Formula:	C ₁₇ H ₁₁ F ₆ N ₇ O		
Molecular Weight:	443.31		
Target:	CRM1		
Pathway:	Membrane Transporter/Ion Channel		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year

SOLVENT & SOLUBILITY

Preparing Stock Solutions		Solvent Mass Concentration	1 mg	5 mg	10 mg		
		1 mM	2.2558 mL	11.2788 mL	22.5576 mL		
	5 mM	0.4512 mL	2.2558 mL	4.5115 mL			
		10 mM	0.2256 mL	1.1279 mL	2.2558 mL		
Vivo	1. Add each solvent c	ubility information to select the app one by one: 10% DMSO >> 90% cor z/mL (5.64 mM); Clear solution					
	2. Add each solvent o	 Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.08 mg/mL (4.69 mM); Clear solution 					
		one by one: 10% DMSO >> 90% (20 //mL (4.69 mM); Suspended solutior)			

BIOLOGICAL ACTIVITY				
Description	Selinexor (KPT-330), analog of KPT-185, is an orally bioavailable and selective CRM1 inhibitor $^{[1][2]}$.			
IC ₅₀ & Target	CRM1			
In Vitro	As the clinical candidate analog of KPT-185, KPT-330 exhibits similar effects on the viability of T-ALL cells and elicits rapid apoptotic response. KPT-330 also reduces cell growth in MOLT-4, Jurkat, HBP-ALL, KOPTK-1, SKW-3, and DND-41 cell lines,			





	with IC ₅₀ values of 34-203 nM ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	Selinexor (KPT-330) dramatically suppresses the growth of T-ALL cells (MOLT-4) and AML cells (MV4–11) in vivo, with little toxicity to normal haematopoietic cells ^[1] . In SCID mice with diffuse human MM bone lesions, KPT-330 inhibits MM-induced bone lysis and prolongs survival. Moreover, KPT-330 directly impairs osteoclastogenesis and bone resorption by blocking RANKL-induced NF-κB and NFATc1, with minimal impact on osteoblasts and BMSCs ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- J Exp Med. 2020 Jul 6;217(7):e20192083.
- Leukemia. 2023 Mar 28.
- Int J Biol Sci. 2023 Jul 3; 19(11):3412-3427.
- J Ethnopharmacol. 2024 Mar 20:328:118057.

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. Etchin J, et al. KPT-330 inhibitor of CRM1 (XPO1)-mediated nuclear export has selective anti-leukaemic activity in preclinical models of T-cell acute lymphoblastic leukaemia and acute myeloid leukaemia. Br J Haematol. 2013 Apr;161(1):117-27.

[2]. Tai YT, et al. CRM1 inhibition induces tumor cell cytotoxicity and impairs osteoclastogenesis in multiple myeloma: molecular mechanisms and therapeutic implications. Leukemia. 2014 Jan;28(1):155-65.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898Fax: 609-228-5909E-mail: tech@MedChemExpress.comAddress: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA