E64FC26

®

MedChemExpress

Cat. No.:	HY-122895		
CAS No.:	2285446-62-	8	
Molecular Formula:	$C_{19}H_{23}F_{3}O_{2}$		
Molecular Weight:	340.38		
Target:	Apoptosis; F	DI	
Pathway:	Apoptosis; C	ell Cycle/	/DNA Damage; Metabolic Enzyme/Protease
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month

SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (293.79 mM; Need ultrasonic)						
	Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg		
		1 mM	2.9379 mL	14.6895 mL	29.3789 mL		
		5 mM	0.5876 mL	2.9379 mL	5.8758 mL		
		10 mM	0.2938 mL	1.4689 mL	2.9379 mL		
	Please refer to the solubility information to select the appropriate solvent.						
In Vivo	1. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (7.34 mM); Clear solution						

DIOLOGICAL ACTIV			
Description	E64FC26 is a potent pan-inhibitor of the protein disulfide isomerase (PDI) family, with IC ₅₀ s of 1.9, 20.9, 25.9, 16.3, and 25.4 μ M against PDIA1, PDIA3, PDIA4, TXNDC5, and PDIA6, respectively. E64FC26 shows anti-myeloma activity ^[1] .		
In Vitro	E64FC26 (0.01-100 μM; 24 h genetically diverse panel of KMS12PE, U266, 8226 DxR, 8 MCE has not independently Cell Viability Assay ^[1]	ours) shows anti-MM activity , with an EC ₅₀ of 0.59 μM ^[1] .?E64FC26 is more cytotoxic against a multiple myeloma (MM) cell lines (KMS11, OPM2, MM.1S BzR, MM.1S, SA-13, U266 BzR, ANBL6, 8226 BzR, KMS12BM, H929,8226 cells) when compared to non-malignant cells ^[1] .	
	Cell Line:	MM.1S BzR cells	
	Concentration:	0.01, 0.1, 1, 10, 100 μΜ	

Product Data Sheet

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	Incubation Time:	24 hours				
	Result:	Showed anti-MM activity , with an EC_{50} of 0.59 $\mu\text{M}.$				
In Vivo	E64FC26 (2 mg/ kg; i.p.; by 2 weeks ^[1] . ?The combination of E6 survival by 20 days ^[1] . ?Pharmacokinetic of E6 mg/ kg; blue tracing) an adequate oral bioavaila	three days a week for 7days) shows anti-MM effect in NSG mice model, and increases median surviva 4FC26 and Bortezomib produced the greatest improvement in survival, extending the median 4FC26 was measured in CD-1 mice. E64FC26 was administered i.v. (2 mg/kg; gray tracing) or p.o. (5 id plasma drug concentrations were measured over a 24 h period. In CD-1 mice demonstrated ibilty of 34% with systemic exposure approaching a maximum concentration (C _{max}) of 400 nM after a				
	single oral dose of 5 mg	/kg with a terminal half-life of 9.5 $h^{[1]}$.				
	treatment induces an in	$\frac{1}{2}$ treatment induces an immediate anti-MM response, decreasing serum M-protein in all mice by an average of 33 ± 7.9% ^[1] .				
	MCE has not independe	ntly confirmed the accuracy of these methods. They are for reference only.				
	Animal Model:	NOD-SCID IL2Ry-/- (NSG) mice (bearing MM.1S cells) ^[1]				
	Dosage:	2 mg/ kg				
	Administration:	i.p.; three days a week for 7days				

REFERENCES

[1]. Robinson RM, et al. Inhibitors of the protein disulfide isomerase family for the treatment of multiple myeloma. Leukemia. 2019 Apr;33(4):1011-1022.

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

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