BMS-265246

®

MedChemExpress

Cat. No.:	HY-15275		
CAS No.:	582315-72-8	3	
Molecular Formula:	C ₁₈ H ₁₇ F ₂ N ₃ O	2	
Molecular Weight:	345.34		
Target:	CDK; Angiot	ensin-co	nverting Enzyme (ACE)
Pathway:	Cell Cycle/D	NA Dama	age; Metabolic Enzyme/Protease
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year

SOLVENT & SOLUBILITY

		Solvent Mass Concentration	1 mg	5 mg	10 mg		
	Preparing Stock Solutions	1 mM	2.8957 mL	14.4785 mL	28.9570 mL		
		5 mM	0.5791 mL	2.8957 mL	5.7914 mL		
		10 mM	0.2896 mL	1.4478 mL	2.8957 mL		
	Please refer to the sol	Please refer to the solubility information to select the appropriate solvent.					
Si 2. Ai		1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: 2.08 mg/mL (6.02 mM); Suspended solution; Need ultrasonic					
		2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 1.25 mg/mL (3.62 mM); Clear solution					

BIOLOGICAL ACTIV	ΊΤΥ		
Description	respectively. BMS-265246 inh	ibits CHI3L1 (chitinase 3-like	nase CDK1 and CDK2 inhibitor, with IC ₅₀ values of 6 and 9 nM, -1) stimulation of ACE2 (angiotensin converting enzyme 2) and SPP e used for ovarian cancer and COVID-19 research ^{[1][2][3]} .
IC ₅₀ & Target	CDK1/cycB 6 nM (IC ₅₀)	CDK2/Cyc E 9 nM (IC ₅₀)	CDK4/cycD 230 nM (IC ₅₀)
In Vitro	?BMS-265246 (0-10 μM) can d	ose dependently increase iTr	ivity in ovarian cancer cell (A2780), with an IC ₅₀ of 0.76 μ M ^[1] . reg cell differentiation ^[2] . timulate epithelial cells ACE2 and SPP ^[3] .

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MCE has not independe RT-PCR ^[3]	ntly confirmed the accuracy of these methods. They are for reference only.
Cell Line:	Calu-3 cells
Concentration:	9 nM
Incubation Time:	24 hours
Result:	Abrogated the ability of CHI3L1 (chitinase 3-like-1) to stimulate epithelial cells ACE2 (angiotensin converting enzyme 2) and SPP (viral spike protein priming proteases).

REFERENCES

[1]. Gu H, et al. Inhibition of CDK2 promotes inducible regulatory T-cell differentiation through TGFβ-Smad3 signaling pathway. Cell Immunol. 2014 Jul;290(1):138-44.

[2]. Kamle S, et al. Chitinase 3-like-1 is a therapeutic target that mediates the effects of aging in COVID-19. JCI Insight. 2021 Nov 8;6(21):e148749.

[3]. Scott GK, et al. ERpS294 is a biomarker of ligand or mutational ERα activation and a breast cancer target for CDK2 inhibition. Oncotarget. 2016 Oct 18;8(48):83432-83445.

[4]. Misra RN, Xiao H, Rawlins DB et al. 1H-Pyrazolo[3,4-b]pyridine inhibitors of cyclin-dependent kinases: highly potent 2,6-Difluorophenacyl analogues. Bioorg Med Chem Lett. 2003 Jul 21;13(14):2405-8.

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