BMS453

®

MedChemExpress

Cat. No.:	HY-100608	
CAS No.:	166977-43-1	
Molecular Formula:	C ₂₇ H ₂₄ O ₂	
Molecular Weight:	380.48	
Target:	RAR/RXR	HO
Pathway:	Metabolic Enzyme/Protease	II O
Storage:	-20°C, stored under nitrogen	
	* In solvent : -80°C, 6 months; -20°C, 1 month (stored under nitrogen)	

SOLVENT & SOLUBILITY

		Solvent Mass Concentration	1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	2.6283 mL	13.1413 mL	26.2826 mL
	Stock Solutions	5 mM	0.5257 mL	2.6283 mL	5.2565 mL
		10 mM	0.2628 mL	1.3141 mL	2.6283 mL

BIOLOGICAL ACTIV			
Description	BMS453 (BMS-189453), a synthetic retinoid, is a RARβ agonist and a RARα/RARγ antagonist. BMS453 inhibits breast cell growth predominantly through the induction of active TGFβ ^{[1][2]} .		
In Vitro	BMS453 (1 μM; 11 hours; 184 significantly inducing apopto BMS453 (1 μM; 5 days; 184 an BMS453 (1 μM; 24-72 hours; 1 BMS453 increases total p21 p BMS453 inhibits breast cell g MCE has not independently o Cell Proliferation Assay ^[2]	and HMEC cells) treatment inhibits the proliferation of normal breast cell growth without osis ^[2] . Ind HMEC cells) treatment inhibits normal breast cell proliferation by causing G1 arrest ^[2] . L84 cells) treatment induces Rb hypophosphorylation and decrease CDK2 kinase activity. Dorotein levels and CDK2-bound p21 protein, but does not change CDK4-bound p21 ^[2] . rowth predominantly through the induction of active TGFβ ^[2] . confirmed the accuracy of these methods. They are for reference only.	
	Cell Line:	Normal human mammary epithelial cells (184 and HMEC)	
	Concentration:	1 μΜ	
	Incubation Time:	11 hours	

Result:	Inhibited ³ H-thymidine uptake in normal breast cells (184 and HMEC) by 40 %.	
Cell Cycle Analysis ^[2]		
Cell Line:	Normal human mammary epithelial cells (184 and HMEC)	
Concentration:	1 μM	
Incubation Time:	5 days	
Result:	Increased the proportion of cells in G0/G1 phase and decreased the proportion of cells in phase.	
Western Blot Analysis ^[2]		
Cell Line:	184 cells	
Concentration:	1 µM	
Incubation Time:	24 hours, 48 hours, 72 hours	

CUSTOMER VALIDATION

• Anticancer Res. 2021 May;41(5):2307-2320.

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REFERENCES

[1]. J Y Chen, et al. RAR-specific agonist/antagonists which dissociate transactivation and AP1 transrepression inhibit anchorage-independent cell proliferation. EMBO J. 1995 Mar 15;14(6):1187-97.

[2]. L Yang, et al. The retinoic acid receptor antagonist, BMS453, inhibits normal breast cell growth by inducing active TGFbeta and causing cell cycle arrest. Oncogene. 2001 Nov 29;20(55):8025-35.

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

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