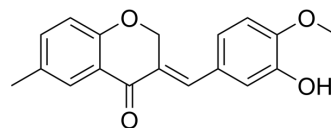


IMS2186

Cat. No.:	HY-101990		
CAS No.:	1031206-36-6		
Molecular Formula:	C ₁₈ H ₁₆ O ₄		
Molecular Weight:	296.32		
Target:	Others		
Pathway:	Others		
Storage:	Powder	-20°C	3 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 66.67 mg/mL (224.99 mM; Need ultrasonic)			
		Solvent Concentration	Mass	
			1 mg	5 mg
			10 mg	
	Preparing Stock Solutions	1 mM	3.3747 mL	16.8736 mL
	5 mM	0.6749 mL	3.3747 mL	6.7495 mL
	10 mM	0.3375 mL	1.6874 mL	3.3747 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: 1.25 mg/mL (4.22 mM); Suspended solution; Need ultrasonic			

BIOLOGICAL ACTIVITY

Description	IMS2186 is an antichoroidal neovascularization (CNV) reagent. IMS2186 can arrest cancer cell cycle in G2/M phase, thus exerting anti-proliferation and anti-angiogenesis effects. IMS2186 has no intraocular toxicity and reduces the amount of eye leakage and diseased cells ^[1] .
In Vitro	IMS2186 (0.3-10 μM; 22 h) inhibits the proliferation of human fibroblasts and human cancer cells with IC ₅₀ values of 1.0-3.0 μM and 0.3-3.0 μM, respectively ^[1] . IMS2186 (0-10 μM; 22 h) inhibits endodermal tube formation under 10 ng/mL VEGF stimulation with IC ₅₀ of 0.1-0.3 μM ^[1] . IMS2186 (0.1-10 μM; 24 h) inhibits the production of proinflammatory cytokines PGE2/TNF-α in macrophages with IC ₅₀ of 0.3-1 μM ^[1] . IMS2186 (0.1-10 μM; 1.5 h) also inhibits macrophage migration with IC ₅₀ of 1 μM ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only. Cell Cycle Analysis ^[1]

	Cell Line:	Cancer H460 cells
	Concentration:	3 μ M, 10 μ M
	Incubation Time:	
	Result:	Showed anti-proliferative activity mediated by arresting cell cycle at G2/M.
In Vivo	<p>IMS2186 (2.5 mg in 0.5 mL; intravitreal injection; single dose) has no ocular toxicity while applied to rabbit eyes^[1]. IMS2186 (100 μg/eye, i.e. 2.0 μL of the solution of 50 μg/μL; single dose) shows anti-proliferative effect on laser-induced choroidal neovascularization (CNV) rat models^[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>	
	Animal Model:	Rat model of laser induced CNV ^[1]
	Dosage:	100 μ g/eye, 2.0 μ L of the solution of 50 μ g/ μ L
	Administration:	Intravitreal injection; single dose
	Result:	Resulted 30% reduction of lesion area compared to PBS in the lesion area measurement.

REFERENCES

[1]. Falkenstein IA, et al. Toxicity and intraocular properties of a novel long-acting anti-proliferative and anti-angiogenic compound IMS2186. *Curr Eye Res.* 2008 Jul;33(7):599-609.

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

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