

IMS2186

## Chemical Properties

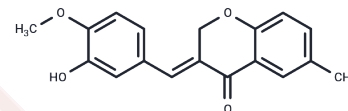
CAS No. : 1031206-36-6

Formula: C<sub>18</sub>H<sub>16</sub>O<sub>4</sub>

Molecular Weight: 296.32

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



## Biological Description

Description	IMS2186 is a reagent with activity of antichoroidal neovascularization (CNV). IMS2186 could arrest cancer cell cycle in G2/M phase, result in exerting anti-proliferation and anti-angiogenesis effects. IMS2186 reduces the amount of eye leakage and diseased cells with no intraocular toxicity.
Targets(IC50)	Others,VEGFR
In vitro	IMS2186 (0.3-10 μM; 22 h) inhibits the proliferation of human fibroblasts and human cancer cells with IC50 values of 1.0-3.0 μM and 0.3-3.0 μM, respectively. IMS2186 (0-10 μM; 22 h) also inhibits endothelium formation with an IC50 of 0.1-0.3 μM under 10 ng/mL VEGF stimulation. Additionally, IMS2186 (0.1-10 μM; 24 h) inhibits the production of pro-inflammatory cytokines PGE2/TNF-α in macrophages with an IC50 of 0.3-1 μM, and it inhibits macrophage migration with an IC50 of 1 μM within 1.5 hours[1].
In vivo	IMS2186 (2.5 mg in 0.5 mL; vitreous injection; single dose) was administered to rabbit eyes with no ocular toxicity, and IMS2186 (100 μg/eye, i.e. 50 μg/μL solution dosage 2.0 μL; single dose) exhibited an anti-proliferative effect on the rat model of laser-induced choroidal neovascularization (CNV) [1].

## Solubility Information

Solubility	DMSO: 60 mg/mL (202.48 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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### Preparing Stock Solutions

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	1mg	5mg	10mg
1 mM	3.3747 mL	16.8737 mL	33.7473 mL
5 mM	0.6749 mL	3.3747 mL	6.7495 mL
10 mM	0.3375 mL	1.6874 mL	3.3747 mL
50 mM	0.0675 mL	0.3375 mL	0.6749 mL

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Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

### Reference

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.

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