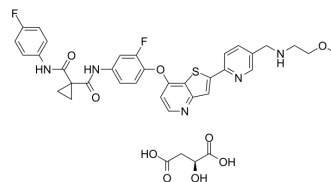


Sitravatinib malate

Cat. No.:	HY-16961A
CAS No.:	2244864-88-6
Molecular Formula:	C ₃₇ H ₃₅ F ₂ N ₅ O ₉ S
Molecular Weight:	763.76
Target:	VEGFR; c-Kit; FLT3; Discoidin Domain Receptor; Trk Receptor
Pathway:	Protein Tyrosine Kinase/RTK; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Sitravatinib malate (MGCD516 malate) is an orally bioavailable receptor tyrosine kinase (RTK) inhibitor with IC ₅₀ s of 1.5 nM, 2 nM, 2 nM, 5 nM, 6 nM, 6 nM, 8 nM, 0.5 nM, 29 nM, 5 nM, and 9 nM for Axl, MER, VEGFR3, VEGFR2, VEGFR1, KIT, FLT3, DDR2, DDR1, TRKA, TRKB, respectively ^[1] . Sitravatinib malate shows potent single-agent antitumor efficacy and enhances the activity of PD-1 blockade through promoting an antitumor immune microenvironment ^[2] .											
IC₅₀ & Target	Axl 1.5 nM (IC ₅₀)	MER 2 nM (IC ₅₀)	VEGFR3 2 nM (IC ₅₀)	VEGFR2 5 nM (IC ₅₀)								
	VEGFR1 6 nM (IC ₅₀)	TrkA 5 nM (IC ₅₀)	TrkB 9 nM (IC ₅₀)	KIT 6 nM (IC ₅₀)								
	FLT3 8 nM (IC ₅₀)	DDR2 0.5 nM (IC ₅₀)	DDR1 29 nM (IC ₅₀)									
In Vitro	<p>Sitravatinib (0.01 nM-10 μM; 14 days) reduces colony formation in a dose-dependent manner in KLN205 and E0771 cell lines [2].</p> <p>Sitravatinib (0.001-10 μM; 5 days) inhibits tumor cell viability with IC₅₀s of approximately 1 μM in KLN205, E0771 and CT1B-A5 cell lines^[2].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <p>Cell Viability Assay^[2]</p> <table border="1"> <tr> <td>Cell Line:</td> <td>KLN205, E0771, CT1B-A5 cells</td> </tr> <tr> <td>Concentration:</td> <td>0.001, 0.01, 0.1, 1, 10 μM</td> </tr> <tr> <td>Incubation Time:</td> <td>5 days</td> </tr> <tr> <td>Result:</td> <td>Inhibited KLN205, E0771, CT1B-A5 cells with IC₅₀s of approximately 1 μM.</td> </tr> </table>				Cell Line:	KLN205, E0771, CT1B-A5 cells	Concentration:	0.001, 0.01, 0.1, 1, 10 μM	Incubation Time:	5 days	Result:	Inhibited KLN205, E0771, CT1B-A5 cells with IC ₅₀ s of approximately 1 μM.
Cell Line:	KLN205, E0771, CT1B-A5 cells											
Concentration:	0.001, 0.01, 0.1, 1, 10 μM											
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Result:	Inhibited KLN205, E0771, CT1B-A5 cells with IC ₅₀ s of approximately 1 μM.											
In Vivo	<p>Sitravatinib (20 mg/kg; p.o.; once per day for 6 days) significantly inhibits tumor progression and induces tumor regression in C57BL/6 mice bearing CT1B-A5 cells model^[2].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>											

Animal Model:	6-week-old C57BL/6 mice (bearing CT1B-A5 cells) ^[2]
Dosage:	20 mg/kg
Administration:	Oral administration; once per day for 6 days
Result:	Significantly inhibited tumor progression and induced tumor regression.

REFERENCES

[1]. Patwardhan PP et al. Significant blockade of multiple receptor tyrosine kinases by MGCD516 (Sitravatinib), a novel small molecule inhibitor, shows potent anti-tumor activity in preclinical models of sarcoma. *Oncotarget*, 2016 Jan 26;7(4):4093-109.

[2]. Du W, et al. Sitravatinib potentiates immune checkpoint blockade in refractory cancer models. *JCI Insight*. 2018 Nov 2;3(21). pii: 124184.

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

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