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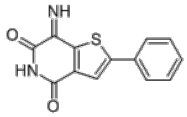
Data Sheet

Global Supplier of Chemical Probes, Inhibitors & Agonists.

Product Name	:	JMS-053
Cat. No.	:	PC-73091
CAS No.	:	1954650-11-3
Molecular Formula	:	$C_{13}H_8N_2O_2S$
Molecular Weight	:	256.279
Target	:	Protein Phosphatase/PTP
Solubility	:	10 mM in DMSO



Biological Activity

JMS-053 (KVX-053) is a potent, selective, reversible, and noncompetitive **PTP4A** inhibitor with IC50 of 50/53/18 nM for PTP4A1/PTP4A2/PTP4A3, respectively.
JMS-053 demonstrates high specificity against a panel of 25 other phosphatases and 50 kinases.
Pharmacological inhibition of PTP4A3 via JMS-053 normalizes VEGF- and LPS-induced decreases in transendothelial electric resistance (TEER).
JMS-053 inhibits OvCa cell proliferation (A2780 cell IC50=600 nM), spheroid viability, and migration.
JMS-053 inhibits RhoA activation in HeyA8 cells (IC50=0.6 uM) and has antitumor activity, inhibits drug-resistant OvCa tumor growth in vivo.

References

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Lazo JS, et al. ***J Pharmacol Exp Ther.*** 2019 Dec;371(3):652-662.

Czub MP, et al. ***Mol Pharmacol.*** 2020 Dec;98(6):648-657.

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