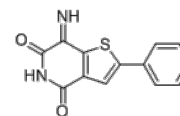


**Product Name** : JMS-053  
**Cat. No.** : PC-73091  
**CAS No.** : 1954650-11-3  
**Molecular Formula** : C<sub>13</sub>H<sub>8</sub>N<sub>2</sub>O<sub>2</sub>S  
**Molecular Weight** : 256.279  
**Target** : Protein Phosphatase/PTP  
**Solubility** :



## Biological Activity

JMS-053 (JMS053) is a potent, selective, reversible, and noncompetitive PTP4A inhibitor with IC<sub>50</sub> 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 IC<sub>50</sub>=600 nM), spheroid viability, and migration.

JMS-053 inhibits RhoA activation in HeyA8 cells (IC<sub>50</sub>=0.6 μM) 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.

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**Caution: Product has not been fully validated for medical applications. Lab Use Only!**

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