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**Product Data Sheet**

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Product Name: JMS-053  
Cat. No.: GC69315

**Chemical Properties**

Cas. No. 1954650-11-3

Formula  $C_{13}H_8N_2O_2S$

M.Wt 256.28

Solubility DMSO : 10 mg/mL (39.02 mM; ultrasonic and warming and heat to 60°C)

Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure

**Background**

IC50: 29.1 nM (PTP4A1), 48.0 nM (PTP4A2), 34.7 nM (PTP4A3), 92.6 nM (CDC25B), 207.6 nM (DUSP3)<sup>[1]</sup>

JMS-053 is a potent, selective and reversible **PTP4A** inhibitor, with **IC<sub>50</sub>s** of 29.1 nM, 48.0 nM, 34.7 nM, 92.6 nM, and 207.6 nM for **PTP4A1**, **PTP4A2**, **PTP4A3**, **CDC25B**, and **DUSP3**, respectively. JMS-053 can inhibit cancer cell migration and spheroid growth in vitro, attenuate in vivo ovarian tumor growth<sup>[1]</sup>.

[1]. Lazo JS, et, al. Next-Generation Cell-Active Inhibitors of the Undrugged Oncogenic PTP4A3 Phosphatase. J Pharmacol Exp Ther. 2019 Dec;371(3):652-662.

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

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