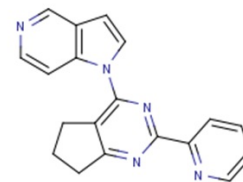


AZ12601011

**Chemical Properties**

CAS No.:	T10426
Formula:	C <sub>19</sub> H <sub>15</sub> N <sub>5</sub>
Molecular Weight:	313.36
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

**Biological Description**

Description	AZ12601011 is an orally active, selective TGFBR1 kinase inhibitor (IC <sub>50</sub> : 18 nM; K <sub>d</sub> : 2.9 nM) with inhibitory to mammary tumor growth. AZ12601011 inhibits phosphorylation of SMAD2 via selectively inhibiting TGFBR1, ALK4, and ALK7.
Targets(IC <sub>50</sub> )	TGFBR1: 2.9 nM (K <sub>d</sub> ) ALK4: None
In vitro	AZ12601011 (0.01-10 μM; for 20 minutes) completely inhibits the Phosphorylation of SMAD2. AZ12601011 (0.01 μM-10 μM) inhibits the activity of ALK4, ALK7, and TGFBR1. AZ12601011 inhibits 4T1 cell growth in vitro (IC <sub>50</sub> : 0.4 μM).
In vivo	In vivo, AZ12601011 (50mg/kg; oral gavage; twice daily; for 25 days) inhibits tumor growth and metastasis.

**Solubility Information**

Solubility	DMSO: 5 mg/mL (15.96 mM) ( < 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.191 mL	15.956 mL	31.912 mL
5 mM	0.638 mL	3.191 mL	6.382 mL
10 mM	0.319 mL	1.596 mL	3.191 mL
50 mM	0.064 mL	0.319 mL	0.638 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

## Reference

1. Spender LC, et al. Preclinical Evaluation of AZ12601011 and AZ12799734, Inhibitors of Transforming Growth Factor β Superfamily Type 1 Receptors. Mol Pharmacol. 2019 Feb;95(2):222-234.

Inhibitors · Natural Compounds · Compound Libraries

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