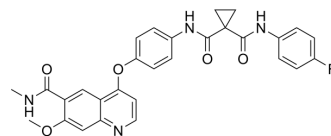


## Zanzalintinib

<b>Cat. No.:</b>	HY-138696
<b>CAS No.:</b>	2367004-54-2
<b>Molecular Formula:</b>	C <sub>29</sub> H <sub>25</sub> FN <sub>4</sub> O <sub>5</sub>
<b>Molecular Weight:</b>	528.53
<b>Target:</b>	TAM Receptor; c-Met/HGFR; VEGFR
<b>Pathway:</b>	Protein Tyrosine Kinase/RTK
<b>Storage:</b>	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



### SOLVENT & SOLUBILITY

<b>In Vitro</b>	DMSO : 16.67 mg/mL (31.54 mM); ultrasonic and warming and heat to 60°C																							
	<table border="1"> <thead> <tr> <th rowspan="2">Solvent Concentration</th> <th colspan="3">Mass</th> </tr> <tr> <th>1 mg</th> <th>5 mg</th> <th>10 mg</th> </tr> </thead> <tbody> <tr> <td><b>Preparing Stock Solutions</b></td> <td></td> <td></td> <td></td> </tr> <tr> <td>1 mM</td> <td>1.8920 mL</td> <td>9.4602 mL</td> <td>18.9204 mL</td> </tr> <tr> <td>5 mM</td> <td>0.3784 mL</td> <td>1.8920 mL</td> <td>3.7841 mL</td> </tr> <tr> <td>10 mM</td> <td>0.1892 mL</td> <td>0.9460 mL</td> <td>1.8920 mL</td> </tr> </tbody> </table>	Solvent Concentration	Mass			1 mg	5 mg	10 mg	<b>Preparing Stock Solutions</b>				1 mM	1.8920 mL	9.4602 mL	18.9204 mL	5 mM	0.3784 mL	1.8920 mL	3.7841 mL	10 mM	0.1892 mL	0.9460 mL	1.8920 mL
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	Please refer to the solubility information to select the appropriate solvent.																							
<b>In Vivo</b>	<ol style="list-style-type: none"> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 40% PEG300 &gt;&gt; 5% Tween-80 &gt;&gt; 45% saline Solubility: 2.5 mg/mL (4.73 mM); Suspended solution; Need ultrasonic</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (3.94 mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% corn oil Solubility: ≥ 2.08 mg/mL (3.94 mM); Clear solution</li> </ol>																							

### BIOLOGICAL ACTIVITY

<b>Description</b>	Zanzalintinib (XL092) is an orally active, ATP-competitive inhibitor of multiple receptor tyrosine kinases (RTKs) including MET, VEGFR2, AXL and MER, with IC <sub>50</sub> s in cell-based assays of 15 nM, 1.6 nM, 3.4 nM, 7.2 nM respectively. Zanzalintinib exhibits anti-tumor activity. Zanzalintinib has the potential for kinase-dependent diseases and conditions research <sup>[1][2]</sup> .		
<b>IC<sub>50</sub> &amp; Target</b>	VEGFR2 1.6 nM (IC <sub>50</sub> )	AXL 3.4 nM (IC <sub>50</sub> )	MER 7.2 nM (IC <sub>50</sub> )
<b>In Vivo</b>	Zanzalintinib (10 mg/kg/day; oral; for 14 days) causes substantial tumor growth inhibition in xenograft studies. Zanzalintinib shows 82% and 96% inhibition on p-MET and p-VEGFR2, respectively <sup>[1]</sup> .		

Zanzalintinib (compound 8; 3 mg/kg; iv) has a  $T_{1/2}$  of 5.4 hours, a CL of 43 mL/hr?kg. Zanzalintinib (3 mg/kg; po) has a  $T_{1/2}$  of 7.1 hours and a  $C_{max}$  of 11.4  $\mu$ M for rats<sup>[2]</sup>.

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	Rat <sup>[1]</sup>
Dosage:	3 mg/kg (Pharmacokinetic Analysis)
Administration:	IV
Result:	Had a $T_{1/2}$ of 5.4 hours, a CL of 43 mL/hr?kg.

## CUSTOMER VALIDATION

- Rapid Commun Mass Spectrom. 2021 Nov 30;206:114390.

See more customer validations on [www.MedChemExpress.com](http://www.MedChemExpress.com)

## REFERENCES

[1]. Lynne Canne Bannen, et al. Compounds for the treatment of kinase-dependent disorders. WO2019148044A1.

[2]. J. Hsu, et al. XL092, a multi-targeted inhibitor of MET, VEGFR2, AXL and MER with an optimized pharmacokinetic profile. European Journal of Cancer, Volume 138, Supplement 2, October 2020, Page S16.

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

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