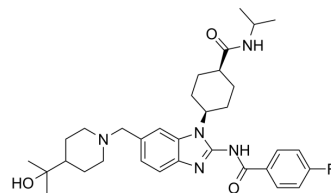


## Belizatinib

<b>Cat. No.:</b>	HY-17603		
<b>CAS No.:</b>	1357920-84-3		
<b>Molecular Formula:</b>	C <sub>33</sub> H <sub>44</sub> FN <sub>5</sub> O <sub>3</sub>		
<b>Molecular Weight:</b>	577.73		
<b>Target:</b>	Anaplastic lymphoma kinase (ALK); Trk Receptor		
<b>Pathway:</b>	Protein Tyrosine Kinase/RTK; Neuronal Signaling		
<b>Storage:</b>	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : ≥ 300 mg/mL (519.27 mM)  
 \* "≥" means soluble, but saturation unknown.

Concentration	Mass		
	1 mg	5 mg	10 mg
<b>1 mM</b>	1.7309 mL	8.6546 mL	17.3091 mL
<b>5 mM</b>	0.3462 mL	1.7309 mL	3.4618 mL
<b>10 mM</b>	0.1731 mL	0.8655 mL	1.7309 mL

Please refer to the solubility information to select the appropriate solvent.

### BIOLOGICAL ACTIVITY

<b>Description</b>	Belizatinib is an oral, dual, potent inhibitor of ALK and TRKA, TRKB, and TRKC, with IC <sub>50</sub> of 0.7 nM for wild-type recombinant ALK kinase.
<b>IC<sub>50</sub> &amp; Target</b>	IC <sub>50</sub> : 0.7 nM (ALK) <sup>[1]</sup>
<b>In Vitro</b>	TSR-011 has antitumour activity in the clinical trials. MCE has not independently confirmed the accuracy of these methods. They are for reference only.
<b>In Vivo</b>	TSR-011 exerts sustained potent inhibition of ALK-dependent tumour growth in mouse models <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### CUSTOMER VALIDATION

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- J Pharm Biomed Anal. 2019 Apr 6;171:132-147.

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

## REFERENCES

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[1]. Sullivan I, et al. ALK inhibitors in non-small cell lung cancer: the latest evidence and developments. Ther Adv Med Oncol. 2016 Jan;8(1):32-47.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA