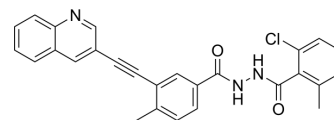


## Vodobatinib

Cat. No.:	HY-137460		
CAS No.:	1388803-90-4		
Molecular Formula:	C <sub>27</sub> H <sub>20</sub> ClN <sub>3</sub> O <sub>2</sub>		
Molecular Weight:	453.92		
Target:	Bcr-Abl		
Pathway:	Protein Tyrosine Kinase/RTK		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



### SOLVENT & SOLUBILITY

In Vitro	DMSO : 125 mg/mL (275.38 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	2.2030 mL	11.0152 mL	22.0303 mL
		5 mM	0.4406 mL	2.2030 mL	4.4061 mL
10 mM		0.2203 mL	1.1015 mL	2.2030 mL	
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: 2.08 mg/mL (4.58 mM); Suspended solution; Need ultrasonic				
	2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (4.58 mM); Clear solution				

### BIOLOGICAL ACTIVITY

Description	Vodobatinib (K0706) is a potent, third generation and orally active Bcr-Abl tyrosine kinase inhibitor with an IC <sub>50</sub> of 7 nM. Vodobatinib exhibits activity against most BCR-ABL1 point mutants, and has no activity against BCR-ABL1T315I. Vodobatinib can be used for chronic myeloid leukemia (CML) research <sup>[1][2]</sup> . Vodobatinib is a click chemistry reagent, it contains an Alkyne group and can undergo copper-catalyzed azide-alkyne cycloaddition (CuAAC) with molecules containing Azide groups.
IC <sub>50</sub> & Target	BCR-ABL1 7 nM (IC <sub>50</sub> )
In Vitro	In Ba/F3 cells expressing BCR-ABL1, BCR-ABL1 <sub>L248V</sub> , BCR-ABL1 <sub>Y253H</sub> , or BCR-ABL1 <sub>E255V</sub> , Vodobatinib (K0706; 0-2000 nM) treatment shows potent inhibition of BCR-ABL1 tyrosine autophosphorylation <sup>[1]</sup> .

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

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## REFERENCES

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- [1]. Orlando Antelope, et al. BCR-ABL1 tyrosine kinase inhibitor K0706 exhibits preclinical activity in Philadelphia chromosome-positive leukemia. *Exp Hematol*. 2019 Sep;77:36-40.e2.
- [2]. Phase 1 Trial of Vodobatinib, a Novel Oral BCR-ABL1 Tyrosine Kinase Inhibitor (TKI): Activity in CML Chronic Phase Patients Failing TKI Therapies Including Ponatinib. Session: 632: Chronic Myeloid Leukemia: Therapy: CML: New and Beyond.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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