## KZR-504

Cat. No.:	HY-101786	
CAS No.:	1629052-78-3	0,
Molecular Formula:	$C_{21}H_{23}N_{3}O_{6}$	
Molecular Weight:	413.42	
Target:	Proteasome	
Pathway:	Metabolic Enzyme/Protease	
Storage:	-20°C, protect from light, stored under nitrogen * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light, stored under nitrogen)	0, ~ ~

## SOLVENT & SOLUBILITY

		Mass Solvent Concentration	1 mg	5 mg	10 mg		
	Preparing Stock Solutions	1 mM	2.4188 mL	12.0942 mL	24.1885 mL		
		5 mM	0.4838 mL	2.4188 mL	4.8377 mL		
		10 mM	0.2419 mL	1.2094 mL	2.4188 mL		
	Please refer to the so	lubility information to select the app	propriate solvent.				
In Vivo		1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 4.25 mg/mL (10.28 mM); Clear solution					
		2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 4.25 mg/mL (10.28 mM); Clear solution					
		3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 4.25 mg/mL (10.28 mM); Clear solution					

BIOLOGICAL ACTIVITY		
Description	KZR-504 is a highly selective inhibitor of immunoproteasome low molecular mass polypeptide 2 (LMP2), with IC <sub>50</sub> s of 51 nM, 4.274 μM for LMP2 and LMP7, respectively. KZR-504 is of interest for the treatment of autoimmune disease <sup>[1]</sup> .	
IC <sub>50</sub> & Target	IC50: 51 nM (LMP2), 4.274 μM (LMP7) <sup>[1]</sup> .	
In Vivo	Evaluating the inhibition of LMP2, and antitargets LMP7 and β5, in mouse tissues reveals that KZR-504 (compound 12) is both selective and potent in vivo with >50% target inhibition achieved at >1 mg/kg in all tissues tested except brain <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	



## REFERENCES

[1]. Johnson HWB, et al. Discovery of Highly Selective Inhibitors of the Immunoproteasome Low Molecular Mass Polypeptide 2 (LMP2) Subunit. ACS Med Chem Lett. 2017 Mar 9;8(4):413-417.

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

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