## ZYF0033

Cat. No.:	HY-144088		
CAS No.:	2380300-79-6		
Molecular Formula:	$C_{26}H_{30}N_4O_2S$		
Molecular Weight:	462.61		
Target:	MAP4K		
Pathway:	MAPK/ERK Pathway		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month

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## SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (216.16 mM; Need ultrasonic)						
Preparing Stock Solu	Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg		
		1 mM	2.1616 mL	10.8082 mL	21.6165 mL		
		5 mM	0.4323 mL	2.1616 mL	4.3233 mL		
		10 mM	0.2162 mL	1.0808 mL	2.1616 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: ≥ 2.5 mg/mL (5.40 mM); Clear solution						
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (5.40 mM); Clear solution						
	3. Add each solvent of Solubility: ≥ 2.5 m	one by one: 10% DMSO >> 90% cor g/mL (5.40 mM); Clear solution	n oil				

Description	ZYF0033 is effective in inhibiting hematopoietic progenitor cells HPK1, basically inhibiting MBP protein oxidation IC <sub>50</sub> 10 nM . ZYF0033 promotes anti-cancer immune response, lowers SLP76 (acid 376) oxidation. ZYF0033 Suppression 4T-1 Small mouse model with the same underlying cause, medium bulge growth length expansion DC, NK 🛚 🖛 CD107a <sup>+ CD8<sup>+</sup> T Cells, PD-1</sup> <sup>+</sup> CD8 <sup>+</sup> T Cells, TIM-3 <sup>+</sup> CD8 <sup>+</sup> T Cells LAG3< sup>+CD8 <sup>+</sup> T Cellular immersion decreases.				
IC <sub>50</sub> & Target	HPK1 <10 nM (IC <sub>50</sub> )				

## Product Data Sheet

H<sub>2</sub>N

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In Vitro	ZYF0033 (100 nM; 24 h) reduces phosphorylation of SLP76 (serine 376), a key biomarker of T cell and HPK1 activation. ZYF0033 causes HPK1 inhibition, increased proliferation of CD4+ and CD8+ T cells, and IFN-γ secretion <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	The maximum tolerated dose of ZYF0033 exceeds 50 mg/kg (daily; po) and exceeds 120 mg/kg in a 6-day toxicity study. In the 4T-1 syngeneic mouse model, ZYF0033 regulates immune cell subsets, increases DC and NK cell infiltration, and promotes anti-cancer immune response <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

## REFERENCES

[1]. Jingwen Si, et al. Hematopoietic Progenitor Kinase1 (HPK1) Mediates T Cell Dysfunction and Is a Druggable Target for T Cell-Based Immunotherapies. Cancer Cell. 2020 Oct 12;38(4):551-566.e11.

[2]. Si J, et al. Hematopoietic Progenitor Kinase1 (HPK1) Mediates T Cell Dysfunction and Is a Druggable Target for T Cell-Based Immunotherapies. Cancer Cell. 2020 Oct 12;38(4):551-566.e11.

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

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