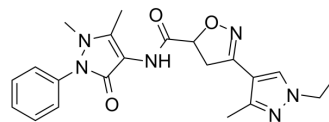


## ISPA-28

Cat. No.:	HY-109987		
CAS No.:	1006335-39-2		
Molecular Formula:	C <sub>21</sub> H <sub>24</sub> N <sub>6</sub> O <sub>3</sub>		
Molecular Weight:	408.45		
Target:	Parasite		
Pathway:	Anti-infection		
Storage:	Powder	-20°C	3 years
	In solvent	-80°C	6 months
		-20°C	1 month



### SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (244.83 mM; Need ultrasonic)					
	Preparing Stock Solutions	Solvent Concentration	Mass	1 mg	5 mg	10 mg
			1 mM	2.4483 mL	12.2414 mL	24.4828 mL
			5 mM	0.4897 mL	2.4483 mL	4.8966 mL
			10 mM	0.2448 mL	1.2241 mL	2.4483 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 (6.12 mM); Clear solution					
	2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (6.12 mM); Clear solution					
	3. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (6.12 mM); Clear solution					

### BIOLOGICAL ACTIVITY

Description	ISPA-28 is a specific plasmodial surface anion channel (PSAC) antagonist. ISPA-28 binds directly and reversibly to CLAG3 <sup>[1][2]</sup> .
In Vitro	ISPA-28 is only effective as an inhibitor of Dd2 channels (K <sub>0.5</sub> values of 56 nM and 43 μM for Dd2 and HB3 channels, respectively) <sup>[2]</sup> . 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]. Sanjay A Desai, et al. Ion and Nutrient Uptake by Malaria Parasite-Infected Erythrocytes.
- [2]. Wang Nguitragool, et al. Proteolysis at a Specific Extracellular Residue Implicates Integral Membrane CLAG3 in Malaria Parasite Nutrient Channels.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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