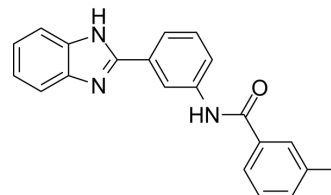


## GLUT1-IN-2

Cat. No.:	HY-148315		
CAS No.:	305357-89-5		
Molecular Formula:	C <sub>21</sub> H <sub>17</sub> N <sub>3</sub> O		
Molecular Weight:	327.38		
Target:	GLUT		
Pathway:	Membrane Transporter/Ion Channel		
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 : 250 mg/mL (763.64 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	3.0546 mL	15.2728 mL	30.5455 mL
		5 mM	0.6109 mL	3.0546 mL	6.1091 mL
		10 mM	0.3055 mL	1.5273 mL	3.0546 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 (6.35 mM); Clear solution				
	2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (6.35 mM); Clear solution				

### BIOLOGICAL ACTIVITY

Description	GLUT1-IN-2 (compound 17) is a GLUT1 inhibitor with an IC <sub>50</sub> value of 12 μM. GLUT1-IN-2 shows inhibitory effect to Plasmodium falciparum hexose transporter PfHT with an IC <sub>50</sub> value of 13 μM. GLUT1-IN-2 can be used for the research of infection <sup>[1]</sup> .
IC <sub>50</sub> & Target	IC <sub>50</sub> : 12 μM (GLUT1), 13 μM (PfHT) <sup>[1]</sup>
In Vitro	GLUT1-IN-2 (0-100 μM) inhibits activities of GLUT1 and PfHT with IC <sub>50</sub> values of 12 and 13 μM, respectively <sup>[1]</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]. Ortiz D, et al. Identification of Selective Inhibitors of the Plasmodium falciparum Hexose Transporter PfHT by Screening Focused Libraries of Anti-Malarial Compounds. PLoS One. 2015 Apr 20;10(4):e0123598.

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

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