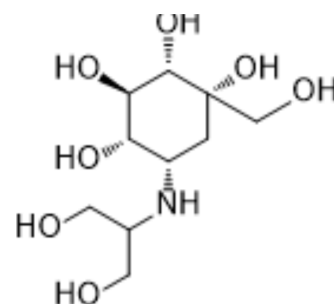


## Voglibose

<b>Cat. No.:</b>	HY-B0025		
<b>CAS No.:</b>	83480-29-9		
<b>Molecular Formula:</b>	C <sub>10</sub> H <sub>21</sub> NO <sub>7</sub>		
<b>Molecular Weight:</b>	267.28		
<b>Target:</b>	Glucosidase		
<b>Pathway:</b>	Metabolic Enzyme/Protease		
<b>Storage:</b>	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



### SOLVENT & SOLUBILITY

#### In Vitro

H<sub>2</sub>O : 250 mg/mL (935.35 mM; Need ultrasonic)  
 DMSO : 100 mg/mL (374.14 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	3.7414 mL	18.7070 mL	37.4139 mL
	5 mM	0.7483 mL	3.7414 mL	7.4828 mL
	10 mM	0.3741 mL	1.8707 mL	3.7414 mL

Please refer to the solubility information to select the appropriate solvent.

#### In Vivo

- Add each solvent one by one: PBS  
Solubility: 100 mg/mL (374.14 mM); Clear solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
Solubility: ≥ 2.5 mg/mL (9.35 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil  
Solubility: ≥ 2.5 mg/mL (9.35 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### Description

Voglibose is an orally active alpha-glucosidase inhibitor that prevents the development of colorectal precancerous lesions induced by obesity and diabetes. Voglibose reduces oxidative stress in an inflammatory environment and inhibits the insulin-like growth factor/insulin-like growth factor-1 receptor (IGF/IGF-1R) functional axis.

#### In Vitro

Voglibose (50 μM; 72 h) has no effect on SW480 and SW837 cells proliferation in both situation with 10 nM IGF-1 or not<sup>[1]</sup>. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

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**In Vivo**

Voglibose (10 mg/kg; po for 15 weeks) has an inhibitory effect on the development of colorectal pre-neoplastic lesions in Azoxymethane (HY-111375)-induced diabetic and obese db/db mice model<sup>[1]</sup>.

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

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

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