



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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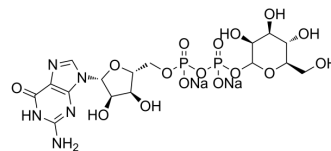
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## GDP-D-mannose disodium

<b>Cat. No.:</b>	HY-N7389A
<b>CAS No.:</b>	103301-73-1
<b>Molecular Formula:</b>	C <sub>16</sub> H <sub>23</sub> N <sub>5</sub> Na <sub>2</sub> O <sub>16</sub> P <sub>2</sub>
<b>Molecular Weight:</b>	649.3
<b>Target:</b>	Endogenous Metabolite
<b>Pathway:</b>	Metabolic Enzyme/Protease
<b>Storage:</b>	-20°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



### SOLVENT & SOLUBILITY

#### In Vitro

H<sub>2</sub>O : 125 mg/mL (192.52 mM; Need ultrasonic)  
DMSO : 11.76 mg/mL (18.11 mM; ultrasonic and adjust pH to 3 with 1M HCl)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	1.5401 mL	7.7006 mL	15.4012 mL
	5 mM	0.3080 mL	1.5401 mL	3.0802 mL
	10 mM	0.1540 mL	0.7701 mL	1.5401 mL

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

### BIOLOGICAL ACTIVITY

#### Description

GDP- $\alpha$ -D-mannose disodium is the donor substrate for mannosyltransferases and the precursor of GDP- $\beta$ -L-fucose. GDP- $\alpha$ -D-mannose disodium gives a competitive inhibition with respect to GTP ( $K_i$  14.7  $\mu$ M) and an uncompetitive inhibition with respect to mannose-1-P ( $K_i$  115  $\mu$ M)<sup>[1]</sup>.

### REFERENCES

[1]. Elling L, et al. Expression, purification and characterization of recombinant phosphomannomutase and GDP- $\alpha$ -D-mannose pyrophosphorylase from *Salmonella enterica*, group B, for the synthesis of GDP- $\alpha$ -D-mannose from D-mannose. *Glycobiology*. 1996 Sep;6(6):591-7.

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

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