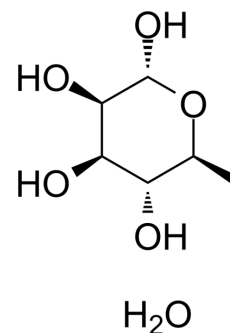


## α-L-Rhamnose monohydrate

<b>Cat. No.:</b>	HY-N0642
<b>CAS No.:</b>	6155-35-7
<b>Molecular Formula:</b>	C <sub>6</sub> H <sub>14</sub> O <sub>6</sub>
<b>Molecular Weight:</b>	182.17
<b>Target:</b>	Others
<b>Pathway:</b>	Others
<b>Storage:</b>	4°C, protect from light * In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



### SOLVENT & SOLUBILITY

#### In Vitro

H<sub>2</sub>O : 100 mg/mL (548.94 mM; Need ultrasonic and warming)  
DMSO : 100 mg/mL (548.94 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	5.4894 mL	27.4469 mL	54.8938 mL
	5 mM	1.0979 mL	5.4894 mL	10.9788 mL
	10 mM	0.5489 mL	2.7447 mL	5.4894 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 (548.94 mM); Clear solution; Need ultrasonic
- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline  
Solubility: ≥ 2.5 mg/mL (13.72 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
Solubility: ≥ 2.5 mg/mL (13.72 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil  
Solubility: ≥ 2.5 mg/mL (13.72 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### Description

α-L-Rhamnose monohydrate is a component of the plant cell wall pectic polysaccharides rhamnogalacturonan I and rhamnogalacturonan II. α-L-Rhamnose monohydrate is also a component of bacterial polysaccharides where it plays an important role in pathogenicity.

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## REFERENCES

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[1]. Tamayo-Ramos JA, et al. L-rhamnose induction of *Aspergillus nidulans*  $\alpha$ -L-rhamnosidase genes is glucose repressed via a CreA-independent mechanism acting at the level of inducer uptake. *Microb Cell Fact.* 2012 Feb 21;11:26.

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

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