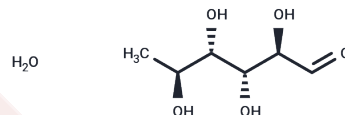


Rhamnose monohydrate

Chemical Properties

CAS No. :	10030-85-0
Formula:	C ₆ H ₁₂ O ₅ ·H ₂ O
Molecular Weight:	182.17
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	Rhamnose monohydrate (L-(+)-Rhamnose Monohydrate) is a naturally-occurring deoxy sugar that is found primarily in plants and some bacteria.
Targets(IC50)	Others
In vitro	L(+)-Rhamnose (Rham) is a naturally-occurring deoxy sugar that is found primarily in plants and some bacteria. Unlike most natural sugars, it is found in an L configuration instead of the usual D configuration. It forms a major structural component of plant cell walls and is also bound to other compounds, such as phenolics. It is now being promoted as an anti-wrinkle agent due to its anti-inflammatory and skin soothing properties.

Solubility Information

Solubility	H ₂ O: 50 mg/mL (274.47 mM),Sonication is recommended. DMSO: 50 mg/mL (274.47 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
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
50 mM	0.1098 mL	0.5489 mL	1.0979 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Reference

Aalbergstj, S., Pauwels, E., Van Yperen-De Deyne, A., Van Speybroeck, V., & Sagstuen, E. (2014). Automated generation of radical species in crystalline carbohydrate using ab initio MD simulations. Phys. Chem. Chem. Phys., 16(32), 17196-17205. doi: 10.1039/c4cp02179g

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Tel:781-999-4286 E_mail:info@targetmol.com Address:36 Washington Street,Wellesley Hills,MA 02481