
Product Data Sheet

Product Name: Rhamnose
Cat. No.: GN10376

Chemical Properties

Cas. No. 10030-85-0

Chemical Name (2S,3R,4R,5R,6S)-6-methyloxane-2,3,4,5-tetrol

SMILES CC1C(C(C(C(O1)O)O)O)O

Formula $C_6H_{12}O_5$ M.Wt 164.16

Solubility DMSO : 36mg/mL; Water : 36mg/mL Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure

Background

Rhamnose monohydrate (L-Rhamnose monohydrate) is a monosaccharide found in plants and bacteria. Rhamnose monohydrate-conjugated immunogens is used in immunotherapies[1]. Rhamnose monohydrate crosses the epithelia via the transcellular pathway and acts as a marker of intestinal absorption[2].

References

- [1]. Chen W, et al. L-rhamnose antigen: a promising alternative to α -gal for cancer immunotherapies. ACS Chem Biol. 2011 Feb 18;6(2):185-91.
- [2]. Zuhl MN , et al. Effects of oral glutamine supplementation on exercise-induced gastrointestinal permeability and tight junction protein expression. J Appl Physiol (1985). 2014 Jan 15;116(2):183-91.

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

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