

Product Data Sheet

Product Name: D-Iditol
Cat. No.: GC49492

Chemical Properties

Cas. No. 25878-23-3

SMILES OC[C@H](O)[C@H](O)[C@@H](O)[C@H](O)CO

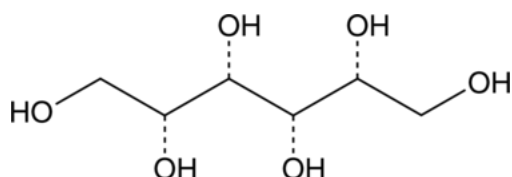
Formula C₆H₁₄O₆ M.Wt 182.2

Solubility DMF: 1 mg/ml, DMSO: 2 mg/ml, Ethanol: insol, PBS (pH 7.2): 5 mg/ml
Storage -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

D-Iditol is a polyol.¹ It inhibits glucosidase I, but not glucosidase II, when used at a concentration of ~1 mM.²

1. Sasahara, H., and Izumori, K. Production of D-iditol from D-sorbose by *Rhodotolura rubra* RY10 isolated from miso paste. *J. Biosci. Bioeng.* 87(4):548-550 (1999).
2. Muniruzzaman, S., Pan, Y.T., Zeng, Y., et al. Inhibition of glycoprotein processing by L-fructose and L-xylulose. *Glycobiology* 6(8):795-803 (1996).

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

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