
Product Data Sheet

Product Name: (2S,3R,4S,5R)-2-Amino-3,4,5,6-tetrahydroxyhexanal hydrochloride
Cat. No.: GC38296

Chemical Properties

Cas. No. 5505-63-5

SMILES O=C[C@@H](N)[C@H]([C@@H]([C@@H](CO)O)O)O.[H]Cl

Formula $C_6H_{14}ClNO_5$ M.Wt 215.63

Solubility DMSO : 43mg/mL; Water : 43mg/mL Storage Store at 2-8°C, stored under nitrogen

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-Mannosamine is an amino monosaccharide.¹ It has been found as a component of LPS isolated from strains of *Salmonella* and *E. coli*. D-Mannosamine has been used as a starting material in the synthesis of N-azidoacetylmannosamine (ManNAz), an azido sugar that has been used as a metabolic label for glycans in cells.²

1.Lüderitz, O., Gmeiner, J., Kickhöfen, B., et al. Identification of α -mannosamine and quinovosamine in *Salmonella* and related bacteria. *J. Bacteriol.* 95(2)490-494(1968)

2. Laughlin, S.T., and Bertozzi, C.R. Metabolic labeling of glycans with azido sugars and subsequent glycan-profiling and visualization via Staudinger ligation. *Nat. Protoc.* 2(11)2930-2944(2007)

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

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