

Product Data Sheet

Product Name: D-(+)-Fucose

Cat. No.: GC49232

Chemical Properties

Cas. No. 3615-37-0

SMILES C[C@@H](O)[C@H](O)[C@H](O)[C@@H](O)C=O

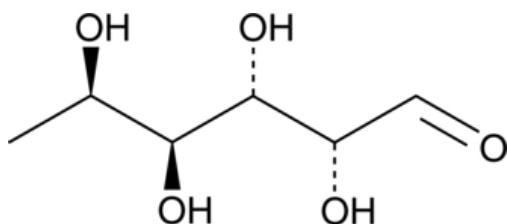
Formula C₆H₁₂O₅ M.Wt 164.2

Solubility DMF: 15 mg/ml, DMSO: 30 mg/ml, PBS (pH 7.2): 10 mg/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

D-(+)-Fucose is a monosaccharide that is an enantiomer of L-(-)-fucose and analog of L-arabinose.¹ It inhibits induction of the L-arabinose operon and has been used to increase the yield and activity of recombinant proteins.^{2,3}

1. Flowers, H.M. Chemistry and biochemistry of D- and L-fucose. *Advances in Carbohydrate Chemistry and Biochemistry* 39:279-345 (1981) 2. Beverin, S., Sheppard, D.E., and Park, S.S. D-Fucose as a gratuitous inducer of the L-arabinose operon in strains of *Escherichia coli* B-r mutant in gene *araCJ*. *Bacteriol.* 107(1):79-86 (1971) 3. Jung, K.-H., Park, Y.-S., Yeon, J.-H., et al. Improving the yield of

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

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soluble 6xHis-tagged interferon- α via the addition of repressor of the araBAD promoter system in Escherichia coli *Biotechnol. Lett.* 30(9)1577-1582(2008)

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