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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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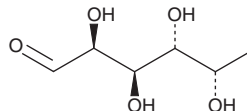
PRODUCT INFORMATION



L-(-)-Fucose

Item No. 16479

CAS Registry No.: 2438-80-4
Formal Name: 6-deoxy-L-galactose
Synonym: 6-deoxy-L-Galactose
MF: C₆H₁₂O₅
FW: 164.2
Purity: ≥98%
Supplied as: A crystalline solid
Storage: -20°C
Stability: ≥2 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

L-(-)-Fucose is supplied as a crystalline solid. A stock solution may be made by dissolving the L-(-)-fucose in the solvent of choice. L-(-)-Fucose is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide, which should be purged with an inert gas. The solubility of L-(-)-fucose in these solvents is approximately 0.3, 30, and 20 mg/ml, respectively.

Further dilutions of the stock solution into aqueous buffers or isotonic saline should be made prior to performing biological experiments. Ensure that the residual amount of organic solvent is insignificant, since organic solvents may have physiological effects at low concentrations. Organic solvent-free aqueous solutions of L-(-)-fucose can be prepared by directly dissolving the crystalline solid in aqueous buffers. The solubility of L-(-)-fucose in PBS, pH 7.2, is approximately 10 mg/ml. We do not recommend storing the aqueous solution for more than one day.

Description

L-(-)-Fucose is a deoxyhexose monosaccharide found on N- and O-linked glycans and glycolipids of a wide variety of organisms.¹ It can exist as a terminal modification of glycan structures or serve as a point of attachment for adding other sugars.² In humans, L-(-)-fucose plays a role in A and B blood group antigen substructure determination, selectin-mediated leukocyte-endothelial adhesion, and host-microbe interactions.¹

References

1. Becker, D.J. and Lowe, J.B. Fucose: biosynthesis and biological function in mammals. *Glycobiology* **13**(7), 41R-53R (2003).
2. Moloney, D.J. and Haltiwanger, R.S. The O-linked fucose glycosylation pathway: Identification and characterization of a uridine diphosphoglucose: fucose-β1,3-glucosyltransferase activity from Chinese hamster ovary cells. *Glycobiology* **9**(7), 679-687 (1999).

WARNING

THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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