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Produktinformation



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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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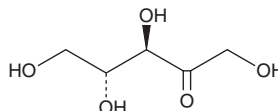
PRODUCT INFORMATION



D-Ribulose

Item No. 18893

CAS Registry No.: 488-84-6
Formal Name: D-erythro-2-pentulose
Synonym: D-Adonose
MF: C₅H₁₀O₅
FW: 150.1
Purity: ≥95%
Supplied as: A solution in water
Storage: -20°C
Stability: As supplied, 1 year from the QC date provided on the Certificate of Analysis, when stored properly



Laboratory Procedures

D-Ribulose is supplied as a solution in water. To change the solvent, simply evaporate the D-ribulose under a gentle stream of nitrogen and immediately add the solvent of choice. A stock solution may be made by dissolving the D-ribulose in the solvent of choice. D-Ribulose is soluble in water at a concentration of approximately 115 mg/ml.

Description

Ribulose is a ketopentose, a monosaccharide containing five carbon atoms and a ketone functional group. It is synthesized in the pentose phosphate pathway and plays a role in the formation of various bioactive compounds. It is a structural isomer of ribose and exists as two enantiomers, D-ribulose and L-ribulose.¹ A double phosphate ester of D-ribulose, ribulose-1,5-bisphosphate combines with carbon dioxide at the beginning of photosynthesis.²

References

1. Nagy, G. and Pohl, N.L.B. Monosaccharide identification as a first step toward *de novo* carbohydrate sequencing: Mass spectrometry strategy for the identification and differentiation of diastereomeric and enantiomeric pentose isomers. *Anal. Chem.* **87(8)**, 4566-4571 (2015).
2. Wolosiuk, R.A., Ballicora, M.A., and Hagelin, K. The reductive pentose phosphate cycle for photosynthetic CO₂ assimilation: Enzyme modulation. *FEBS J.* **7**, 622-637 (1993).

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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