

Product Data Sheet

Product Name: D-Ribulose

Cat. No.: GC40754

Chemical Properties

Cas. No. 488-84-6

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

Formula C₅H₁₀O₅

M.Wt 150.1

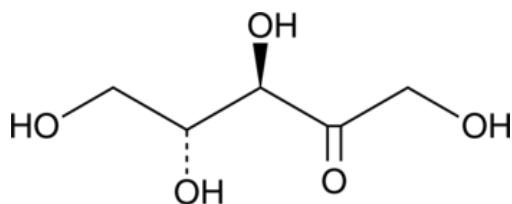
Solubility Water: 115 mg/ml

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

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. A double phosphate ester of D-ribulose, ribulose-1,5-bisphosphate combines with carbon dioxide at the beginning of photosynthesis.

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

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