

Product Data Sheet

Product Name: L-Xylulose

Cat. No.: GC70365

Chemical Properties

Cas. No. 527-50-4

Formula $C_5H_{10}O_5$

M.Wt 150.13

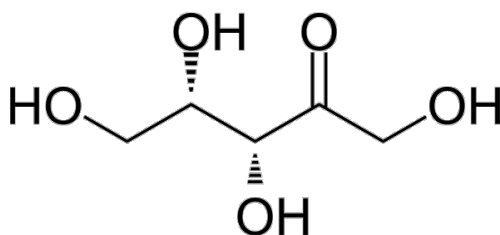
Solubility

Storage -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

L-Xylulose is an endogenous metabolite present in Blood, Cerebrospinal_Fluid and Urine that can be

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

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used for the research of Ribose 5 Phosphate Isomerase Deficiency.

Endogenous metabolites is defined as those that are annotated by Kyoto Encyclopedia of Genes and Genomes as substrates or products of the ~1900 metabolic enzymes encoded in our genome. It is clear in the body of literature that there are documented toxic properties for many of these metabolites^[1].

References:

- [1]. Lee N, et al. Endogenous toxic metabolites and implications in cancer therapy. *Oncogene*. 2020 Aug;39(35):5709-5720.
- [2]. Huck JH, et al. Ribose-5-phosphate isomerase deficiency: new inborn error in the pentose phosphate pathway associated with a slowly progressive leukoencephalopathy. *Am J Hum Genet*. 2004 Apr;74(4):745-51.

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