

Product Data Sheet

Product Name: L-Arabinose

Cat. No.: GC14474

Chemical Properties

Cas. No. 5328-37-0

Chemical Name (3R,4S,5S)-tetrahydro-2H-pyran-2,3,4,5-tetraol

SMILES O[C@@]1([H])COC(O)([H])[C@@](O)([H])[C@@]1([H])O

Formula $C_5H_{10}O_5$ M.Wt 150.13

Solubility $\geq 15\text{mg/mL}$ in DMSO Storage Store at RT

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.

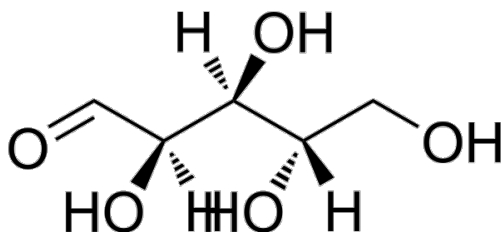
Caution: Product has not been fully validated for medical applications. For research use only.

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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Structure



Background

L-(+)-Arabinose selectively inhibits intestinal sucrase activity in a noncompetitive manner and suppresses the plasma glucose increase due to sucrose ingestion.

L-(+)-Arabinose selectively inhibits intestinal sucrase activity in a noncompetitive manner and suppresses the plasma glucose increase due to sucrose ingestion[1]. L-(+)-Arabinose is found to be associated with ribose-5-phosphate isomerase deficiency, which is an inborn error of metabolism[2].

References:

- [1]. Osaki S, et al. L-arabinose feeding prevents increases due to dietary sucrose in lipogenic enzymes and triacylglycerol levels in rats. J Nutr. 2001 Mar;131(3):796-9.
- [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.

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