

## Arabinose

## Chemical Properties

CAS No. : 147-81-9

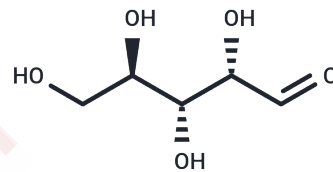
Formula: C<sub>5</sub>H<sub>10</sub>O<sub>5</sub>

Molecular Weight: 150.13

Store under nitrogen

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



## Biological Description

|               |   |
|---------------|---|
| Description   | Arabinose (DL-Arabinose), also known as (+/-)-arabinose or aloe sugar. Arabinose has been primarily detected in feces. Within the cell, Arabinose is primarily located in the cytoplasm. Arabinose exists in all eukaryotes, ranging from yeast to humans. Outside of the human body, Arabinose can be found in sweet basil and tamarind. |
| Targets(IC50) | Endogenous Metabolite   |

## Solubility Information

|                     |   |
|---------------------|---|
| Solubility          | DMSO: 125 mg/mL (832.61 mM),Sonication is recommended.<br>(< 1 mg/ml refers to the product slightly soluble or insoluble)   |
| In vivo Formulation | 10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (13.32 mM),Sonication is recommended.<br><i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i> |

### Preparing Stock Solutions

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|       | 1mg       | 5mg        | 10mg       |
|-------|-----------|------------|------------|
| 1 mM  | 6.6609 mL | 33.3045 mL | 66.6089 mL |
| 5 mM  | 1.3322 mL | 6.6609 mL  | 13.3218 mL |
| 10 mM | 0.6661 mL | 3.3304 mL  | 6.6609 mL  |
| 50 mM | 0.1332 mL | 0.6661 mL  | 1.3322 mL  |

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Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

### Reference

Larsen, N., Cahú, T., Isay Saad, S., Blennow, A., & Jespersen, L. (2018). The effect of pectins on survival of probiotic *Lactobacillus* spp. in gastrointestinal juices is related to their structure and physical properties. *Food Microbiology*, 74, 11-20. doi: 10.1016/j.fm.2018.02.015

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