D-Arabinose

Cat. No.: HY-N7082

CAS No.: 28697-53-2

Molecular Formula: $C_5H_{10}O_5$

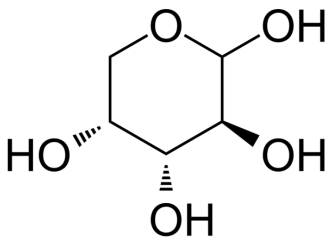
Molecular Weight: 150.13

Target: Others

Pathway: Others

Storage:

Powder	-20°C	3 years
	4°C	2 years
In solvent	-80°C	2 years
	-20°C	1 year



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (666.09 mM; Need ultrasonic)

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	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

Please refer to the solubility information to select the appropriate solvent.

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 2.5 mg/mL (16.65 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (16.65 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.5 mg/mL (16.65 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

D-Arabinose, a monosaccharide, shows strong growth inhibition against the Caenorhabditis elegans with an IC_{50} of 7.5 mM [1].

REFERENCES

[1]. Sakoguchi H, et al. Growth inhibitory effect of D-arabinose against the nematode Caenorhabditis elegans: Discovery of a novel bioactive monosaccharide. Bioorg Med Chem Lett. 2016 Feb 1;26(3):726-729.

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

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