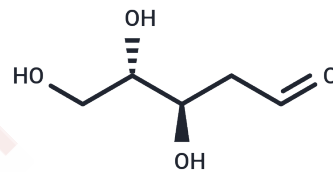


2-Deoxy-L-ribose

Chemical Properties

CAS No. :	18546-37-7
Formula:	C ₅ H ₁₀ O ₄
Molecular Weight:	134.13
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	2-Deoxy-L-ribose is the stereoisomer of 2-Deoxy-D-ribose and can inhibit the anti-apoptotic effects of 2-Deoxy-D-ribose. Additionally, 2-Deoxy-L-ribose is capable of suppressing tumor cell metastasis by downregulating thymidine phosphorylase overexpression.
Targets(IC50)	Apoptosis
In vitro	2-Deoxy-L-ribose (10-100 μ M; 24 hours) significantly reduces the number of invading KB/TP cells under hypoxic conditions [1]. Additionally, 2-Deoxy-L-ribose (10-100 μ M; 48 hours) decreases VEGF and IL-8 mRNA levels in KB/TP cells under hypoxic conditions [1].
In vivo	Oral administration of 2-Deoxy-L-ribose (20-100 mg/kg; daily; for 28 days) reduces liver metastasis nodules and metastatic area, inhibits angiogenesis, and promotes apoptosis [1]. Furthermore, 2-Deoxy-L-ribose (20 mg/kg; oral; daily; for 52 days) is more effective than Tegafur (100 mg/kg) in reducing abdominal metastasis nodules [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	7.4555 mL	37.2773 mL	74.5545 mL
5 mM	1.4911 mL	7.4555 mL	14.9109 mL
10 mM	0.7455 mL	3.7277 mL	7.4555 mL
50 mM	0.1491 mL	0.7455 mL	1.4911 mL

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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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