L-Guanosine

Cat. No.: HY-138130

CAS No.: 26578-09-6

Molecular Formula: $C_{10}H_{13}N_5O_5$

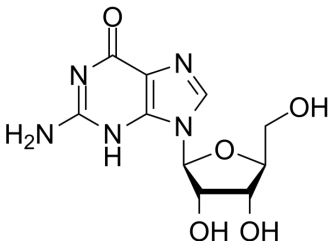
Molecular Weight: 283.24

Target: Nucleoside Antimetabolite/Analog

Pathway: Cell Cycle/DNA Damage

Storage: 4°C, protect from light

* In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (353.06 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	3.5306 mL	17.6529 mL	35.3057 mL
	5 mM	0.7061 mL	3.5306 mL	7.0612 mL
	10 mM	0.3531 mL	1.7653 mL	3.5306 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 (8.83 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.5 mg/mL (8.83 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

L-Guanosine is the L-configuration of Guanosine (HY-N0097). Guanosine is a purine nucleoside with anti-herpesvirus activity [1][2].

REFERENCES

[1]. Du Y, et al. Chirality from D-guanosine to L-guanosine shapes a stable gel for three-dimensional cell culture. Chem Commun (Camb). 2021 Dec 3;57(96):12936-12939.

[2]. De Clercq E. Guanosine analogues as anti-herpesvirus agents. Nucleosides Nucleotides Nucleic Acids. 2000 Oct-Dec;19(10-12):1531-41.

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

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