

L-Asparaginase

Chemical Properties

CAS No. : 9015-68-3

Formula:

Molecular Weight:

Storage: Keep away from direct sunlight, Keep away from moisture
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	L-Asparaginase (L-ASNase) is a hydrolase that catalyzes the conversion of L-asparagine, serving as a core enzyme drug in tumor therapy. L-Asparaginase can be used in research on acute lymphoblastic leukemia and drug screening.
Targets(IC50)	Apoptosis,DNA/RNA Synthesis
In vitro	Methods: Primary cells (peripheral blood/bone marrow) from 37 AML patients were treated with Erwinia L-Asparaginase (1 IU/mL) for 48 hours. Live cells were counted by flow cytometry, and apoptosis was detected using Annexin V. Results: The number of viable cells decreased significantly (median reduction of 47.35%), and the apoptosis rate increased significantly (median 22.33% → 47.53%).[1]

Solubility Information

Solubility	H2O: 33.00 mg/mL (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Reference

- Michelozzi IM, et al. Acute myeloid leukaemia niche regulates response to L-asparaginase. Br J Haematol. 2019 Aug;186(3):420-430.
- Lee SH, et al. Polyamine profiles in the urine of patients with leukemia. Cancer Lett. 1998 Jan 9;122(1-2):1-8.
- Lee N, et al. Endogenous toxic metabolites and implications in cancer therapy. Oncogene. 2020 Aug;39(35):5709-5720.

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