

L-Asparaginase

Cat. No.:	HY-P1923
CAS No.:	9015-68-3
Target:	Apoptosis; DNA/RNA Synthesis
Pathway:	Apoptosis; Cell Cycle/DNA Damage
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

L-Asparaginase

SOLVENT & SOLUBILITY

In Vitro	0.1 M HCL : 50 mg/mL (ultrasonic and adjust pH to 3 with HCl) H ₂ O : 1 mg/mL (ultrasonic and warming and heat to 50°C)
In Vivo	1. Add each solvent one by one: PBS Solubility: 25 mg/mL (Infinity mM); Clear solution; Need ultrasonic

BIOLOGICAL ACTIVITY

Description	L-Asparaginase (L-ASNase) is a deamidating enzyme that catalyses the hydrolysis of L-asparagine and L-glutamine, and can be used for the research of acute lymphoblastic leukemia. L-Asparaginase depletes L-asparagine from plasma resulting in inhibition of RNA and DNA synthesis with the subsequent blastic cell apoptosis ^[1] .
In Vitro	L-Asparaginase has a cytotoxic effect on AML blasts and LSC subpopulations ^[1] . ?L-Asparaginase is effective on both CD34 ⁺ CD38 ⁺ and CD34 ⁺ CD38 ⁺ LSC fractions, MSC and monocytes/macrophages partially counteracted the effect ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- EMBO Mol Med. 2023 Jan 4;e16554.
- Cancers (Basel). 2022 Oct 19;14(20):5127.
- Front Mol Neurosci. 2020 Sep 30;13:563054.
- BMC Cancer. 2022 Jul 2;22(1):724.

See more customer validations on www.MedChemExpress.com

REFERENCES

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

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