

## L-Asparaginase

Cat. No.:	HY-P1923
CAS No.:	9015-68-3
Target:	Apoptosis; DNA/RNA Synthesis
Pathway:	Apoptosis; Cell Cycle/DNA Damage
Storage:	Powder -20°C 3 years In solvent -80°C 6 months -20°C 1 month

## L-Asparaginase

### SOLVENT & SOLUBILITY

In Vitro	H <sub>2</sub> O : 100 mg/mL (Need ultrasonic)
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 <sup>[1]</sup> .
In Vitro	L-Asparaginase has a cytotoxic effect on AML blasts and LSC subpopulations <sup>[1]</sup> . L-Asparaginase is effective on both CD34 <sup>+</sup> CD38 <sup>+</sup> and CD34 <sup>+</sup> CD38 <sup>+</sup> LSC fractions, MSC and monocytes/macrophages partially counteracted the effect <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

### CUSTOMER VALIDATION

- EMBO Mol Med. 2023 Jan 4;e16554.
- Cell Death Dis. 2023 Aug 1;14(8):489.
- Biochem Pharmacol. 2023 Jul 20;215:115690.
- Cancers (Basel). 2022 Oct 19;14(20):5127.
- Front Mol Neurosci. 2020 Sep 30;13:563054.

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### REFERENCES

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

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