

LAMPIRAN 2. DESAIN BAHAN KEMAS LEUNASE (YANG DIAJUKAN)

210

回 天

	≥5%	5% > ≥0.1%	Incidence unknown
Hypersensitivity	Rash		
Hematologic	Thrombocytopenia	Anemia	
Hepatic	Fatty liver		Hepato function disorder
Renal		Edema, Hypemithema	Albuminuria, Diuretic failure
Gastrointestinal	Anorexia, Nausea, Vomiting, Diarrhea		
Psychoneurologic	Malaise	Somnolence, Anxiety, Headache	
Others	Fever		Vesicular pain, Abnormal glucose tolerance, Hyperglycemia, Sialoadenitis, Parotitis

4. Use in the Elderly

Since elderly patients often have reduced physiological function and, therefore, are particularly susceptible to hepatic disorder, LEUNASE should be administered with caution in elderly patients, paying special attention to the dose and patient's condition.

5. Use during Pregnancy, Delivery or Lactation

1) Administration of LEUNASE is not recommended in pregnant women or women who may possibly be pregnant.

[Animal studies with mice and rats have shown teratogenicity of this drug manifested as exencephaly, anomaly of thoracic vertebra and ribs and delayed ossification.]

2) Nursing mothers should discontinue breast feeding during treatment.

[The safety of LEUNASE in nursing mothers has not been established.]

6. Pediatric Use

See 2. Important Precautions 5) and 6).

7. Precautions Concerning Use

1) Preparation

(1) Reconstitute LEUNASE initially with 2 to 5mL of water for injection (JP), and then dilute the solution with replenisher solution to 200 to 500mL.

(2) Direct reconstitution with isotonic sodium chloride solution (JP) should be avoided because it may cause the solution to become turbid due to settling out.

2) Precautions during administration

(1) Intradermal test is recommended in prior to the administration of LEUNASE, since the administration of LEUNASE may cause shock to occur.

(Reconstitute LEUNASE with water for injection (JP), and then dilute a part of the solution with isotonic sodium chloride solution (JP) to make a solution containing 1 to 10 KU of L-Asparaginase. Inject 0.1mL of the solution intracutaneously and observe the patient for about 30 minutes for confirming that no abnormality occurs.)

(2) LEUNASE should be used immediately after reconstitution.

3) Route of administration

LEUNASE should not be administered by other routes than intravenous drip infusion.

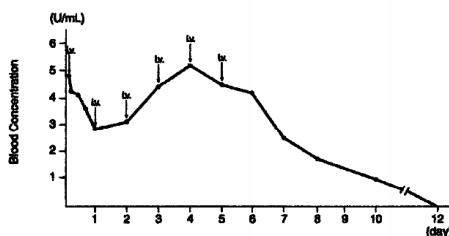
4) Other Precautions

It has been reported that LEUNASE has a higher potency than other L-Asparaginase preparations manufactured and used in other countries⁹. Attention should, therefore, be paid to the dosage in case this product is used in consultation with therapies prevailing in other countries.

[PHARMACOKINETICS]

1. Blood concentrations¹⁰

Blood concentration of L-Asparaginase changed as indicated below when it was administered intravenously for 8 consecutive days in lymphosarcoma patients at a dose of 11,000 KU (200 KU/kg):



2. Distribution (data from study in rats)¹⁰

The concentration of L-Asparaginase detected 15 minutes after intravenous administration of 2,500 KU/kg of L-Asparaginase in rats was highest in the liver followed by spleen, lung, kidney, stomach and then by small intestine.

3. Excretion (data from study in rats)¹⁰

When L-Asparaginase was intravenously administered in rats at a dose as large as 50,000 to 100,000 KU/kg, only 0.014 to 0.032% of the dose was collected in urine within 24 hours after administration, indicating very little excretion of unchanged active substance. No activity was detected in urine after administration at a small dose.

[PHARMACOLOGY]

1. Antineoplastic activity⁹⁻¹⁰

L-Asparaginase demonstrates antineoplastic activities against lymphoblastoma L5178Y of mice, lymphoma 6C3HED of mice and sarcoma Walker 256 of rats.

2. Mechanism of action⁹⁻¹⁰

L-Asparaginase exerts its antineoplastic activity by decomposing L-Asparagine in blood and thereby depriving asparagine requiring tumor cells of nutrients.

[PHYSICOCHEMISTRY]

L-Asparaginase is a protein composed of four subunits containing 321 amino acids each.

Nonproprietary name : L-Asparaginase

Molecular weight : 141,000 (by Yphantis method)

Description : L-Asparaginase occurs as a white cylinder or needle crystal of monoclinic system.

Solubility : It is very soluble in water but practically insoluble in methanol, acetone or chloroform.

[PACKAGING]

10,000 KU/vial : Box of 1 vial

[REFERENCES]

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- 4) Nagashih, T., et al.: Oyo Yakuri (Pharmacometrics), 4 (4), 593, 1970
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- 6) Minoshima, A., et al.: Shonika (Pediatrics of Japan), 11, 81, 1970
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- 11) Broome, J. D. : Recent Results in Cancer Research; Experimental and Clinical Effects of L-Asparaginase : Springer-Verlag, P.15, 1970

Pada proses pembuatannya, bersinggungan dengan bahan bersumber babi.

Harus dengan resep dokter.

LEUNASE 10,000 KU : Reg. No. DKI1738500344A1

Imported by
PT Widatra Bhakti
Pandaan, Pasuruan, Jawa Timur

Manufactured by
Nipro Pharma Corporation
Odate Plant
5-7, Niida Aza Maedano, Odate-Shi, Akita, Japan
for
Kyowa Kirin Co., Ltd.
1-9-2 Otemachi, Chiyoda-ku, Tokyo, Japan

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