

Product: L-Asparaginase, recombinant
Catalog #: 12-4305
Amount: 500 IU

DESCRIPTION: L-Asparaginase is an enzyme that depletes L-Asparagine "an important nutrient for cancer cells" resulting in cancer/tumor cell starvation. L-asparaginase is an anti-tumor agent derived from E.coli., which can inhibit the growth of malignant cells. It is used mainly for the induction of remission in acute lymphoblastic leukaemia. Because of the lymph node origin of malignant B cells in Multiple Myeloma, L-Asparagine is an essential amino acid for their cell metabolism, and, consequently, L-Asparaginase may be of value in managing the disease.
L-Asparaginase produced from E.Coli containing 303 amino acids and having a molecular mass of 31,731 Dalton.

SOURCE: *Escherichia coli*

MOLECULAR WEIGHT: 31.7 kDa

PURITY: > 96%, as determined by: reducing and non-reducing SDS-PAGE stained Coomassie blue gel and RP-HPLC

ACTIVITY: One IU of L- Asparaginase is defined as that amount of enzyme required to generate 1 μ mol of ammonia per minute at pH 7.3 and 37°C.

SPECIFIC ACTIVITY: 250,000 IU/mg

FORM: Purified, in sterile water

STORAGE: -20°C (aliquot), avoid freezing and thawing cycles

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