

32-2492: L-Asparaginase Recombinant Protein

Description

Source : Escherichia Coli. L-Asparaginase was purified from E.coli ASI.357 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. The rationale behind asparaginase is that it takes advantage of the fact that ALL cells are unable to synthesize the non-essential amino acid asparagine whereas normal cells are able to make their own asparagine. These leukemic cells depend on circulating asparagine. Asparaginase however catalyzes the conversion of L-asparagine to aspartic acid and ammonia. This deprives the leukemic cell of circulating asparagine.

Product Info

Amount :	2500 IU
Purification :	Greater than 96.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.
Content :	The enzyme was lyophilized with no additives.
Storage condition :	Store at -20°C, 2 weeks at 4°C.

Application Note

It is recommended to reconstitute the lyophilized L-Asparaginase in 18M-cm H₂O at 1mg/ml. 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.

