Product Data Sheet

Product Name:	L-Asparaginase
Cat. No.:	GP21861
Batch No.:	1

Product Data

Purity	>98%	Source	Escherichia Coli.
Phycical Appearance	solid	Shipping Condition	Shipped at Room temp.
Solubility	It is recommended to reconstitute the lyophilized L-Asparaginase in 18M-cm H2O at 1mg/ml.		
Formulation	The enzyme was lyophilized with no additives.		

Introduction

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 cellsare unable to synthesize the non-essential amino acidasparaginewhereas 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 acidand ammonia. This deprives the leukemic cell of circulating asparagine.

Biological Activity

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

Stability

Lyophilized L-Asparaginase although stable at room temperature for 3 weeks, should be stored desiccated below -18°C . Upon reconstitution L-Asparaginase should be stored at 4°C between 2-7 days and for future use below -18°C .Please prevent freeze-thaw

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cycles.

Background

L-Asparaginase was purified from E.coli ASI.357

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