

## OriGene Technologies Inc.

9620 Medical Center Drive, Ste 200 Rockville, MD 20850 UNITED STATES Phone: +1-858-888-7900 Fax: +1-858-888-7904 <u>US-info@acris-antibodies.com</u>

## AR10140PU-S OriGene EU

OriGene EU

Acris Antibodies GmbH Schillerstr. 5 32052 Herford GERMANY Phone: +49-5221-34606-0 Fax: +49-5221-34606-11 info@acris-antibodies.com

Catalog No.:	E. coli L-Asparaginase - Purified AR10140PU-S
Quantity:	0.5 kIU
Background:	<ul> <li>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 <i>E.coli</i> .,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.</li> <li>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.</li> </ul>
Uniprot ID:	<u>P37595</u>
NCBI:	<u>AP_001459.1</u>
GenelD:	<u>945456</u>
Species:	E. coli
Source:	E. coli
Format:	State: Sterile Filtered White lyophilized (freeze-dried) powder enzyme without additives. Purity: >96.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.
Description:	<ul> <li>L-Asparaginase produced from <i>E.coli</i> containing 303 amino acids and having a Molecular Mass of 31731 Dalton.</li> <li>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.</li> <li>One unit of enzyme catalyzes hadrylazation of 10 nanomoles of dUTP to dUMP in one hour at 85 Centigrade.</li> <li>Specific Activity: 225 IU/mg Molecular weight: 31731 Da</li> </ul>
Storage:	Store the antigen for 2 weeks at 2-8°C or at -20°C for longer. Avoid repeated freezing and thawing. Shelf life: One year from despatch.

**For research and in vitro use only. Not for diagnostic or therapeutic work.** Material Safety Datasheets are available at www.acris-antibodies.com or on request.



MS/20120824

Acris Antibodies is now part of the OriGene family. Learn more at www.origene.com