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PA1085X **OriGene EU**

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Mouse Interleukin-9 (IL-9) - Purified

Catalog No.:	PA1085X
Quantity:	10 µg
Concentration:	1 mg/ml (lyophil.)
Background:	Factor that is thought to be a regulator of hematopoiesis. It has been shown to enhance the growth of human mast cells and megakaryoblastic leukemic cells as well as murine helper t-cell clones. IL-9 is a glycoprotein with a molecular weight of 32-39 that is derived from T-cells, and maps to human chromosome 5.
Species:	Mouse
Source:	E. coli
Format:	 State: Lyophilized Purity: >98% Purified by proprietary chromatographic techniques, sterile filtered, purity > 98.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE. Reconstitution: Sterile 18MΩ-cm H2O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.
Description:	Interleukin-9 Mouse Recombinant produced in E.Coli is a single, non-glycosylated single polypeptide chain containing 127 amino acids. AA Sequence: The sequence of the first five N-terminal amino acids was determined and was found to be Met-Gln-Arg-Cys-Ser. Biological Activity: The ED50 as determined by the dose-dependant stimulation of human MO7e cells is < 0.5 ng/ml, corresponding to a specific Activity of 2 x 10e6 IU/mg. Molecular weight: 14 kDa 14166 Dalton.
Add. Information:	 Protein quantitation was carried out by two independent methods: 1. UV spectroscopy at 280 nm using the absorbency value of 0.6 as the extinction coefficient for a 0.1% (1mg/ml) solution. This value is calculated by the PC GENE computer analysis program of protein sequences (IntelliGenetics). 2. Analysis by RP-HPLC, using a standard solution of IL-9 as a Reference Standard.
Storage:	Lyophilized product is stable at room temperature for one month, should be stored desiccated below -20 °C. Upon reconstitution it should be stored at 2 - 8 °C up to one week and for future use below -20 °C. For long term storage it is recommended to add a carrier protein (0.1 % HSA or BSA). Avoid repeated freezing and thawing. Shelf life: one year from despatch.
General Readings:	1. Endo Y, Isono K, Kondo M, Tamaoki J, Nagai A. Interleukin-9 and Interleukin-13 augment UTP-induced Cl ion transport via hCLCA1 expression in a human bronchial epithelial cell line. Clin Exp Allergy. 2007 Feb;37(2):219-24. PubMed PMID: 17250694.

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.



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



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2. Qiu L, Lai R, Lin Q, Lau E, Thomazy DM, Calame D, et al. Autocrine release of interleukin-9 promotes Jak3-dependent survival of ALK+ anaplastic large-cell lymphoma cells. Blood. 2006 Oct 1;108(7):2407-15. Epub 2006 Jun 8. PubMed PMID: 16763206.

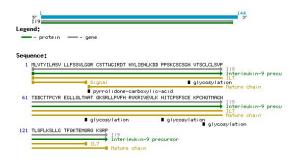
3. McNamara PS, Smyth RL. Interleukin-9 as a possible therapeutic target in both asthma and chronic obstructive airways disease. Drug News Perspect. 2005 Dec;18(10):615-21. PubMed PMID: 16491163.

4. Devos S, Cormont F, Vrtala S, Hooghe-Peters E, Pirson F, Snick J. Allergen-induced interleukin-9 production in vitro: correlation with atopy in human adults and comparison with interleukin-5 and interleukin-13. Clin Exp Allergy. 2006 Feb;36(2):174-82. PubMed PMID: 16433854.

5. Nagato T, Kobayashi H, Kishibe K, Takahara M, Ogino T, Ishii H, et al. Expression of interleukin-9 in nasal natural killer/T-cell lymphoma cell lines and patients. Clin Cancer Res. 2005 Dec 1;11(23):8250-7. PubMed PMID: 16322282.

6. Poulin LF, Habran C, Stordeur P, Goldman M, McKenzie A, Van Snick J, et al. Interleukin-9 stimulates the production of interleukin-5 in CD4+ T cells. Eur Cytokine Netw. 2005 Sep;16(3):233-9. PubMed PMID: 16266865.

Pictures: Precursor- Protein structure and amino acid sequence



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