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PA1084XC OriGene EU

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Recombinant Human Interleukin-9

Catalog No.: PA1084XC

Quantity: 1 mg
Concentration: 1 mg/ml

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: Human
Source: E. coli

Format: State: Sterile Filtered White lyophilized (freeze-dried) powder.

Purity: >98% Greater than 98.0% as determined by:

(a) Analysis by RP-HPLC.(b) Analysis by SDS-PAGE.

Buffer System: Lyophilized from a concentrated solution in water containing no additives. **Reconstitution:** It is recommended to reconstitute the lyophilized Interleukin-9 in sterile 18MĎ?-cm H2O not less than 100µg/ml, which can then be further diluted to other aqueous

solutions.

Description: Interleukin-9 Human Recombinant produced in E.Coli is a single, non-glycosylated single

polypeptide chain containing 127amino acids. The IL-9 is purified by proprietary

chromatographic techniques.

AA Sequence:

The sequence of the first five N-terminal amino acids was determined and was

found to be Met-Gln-Gly-Cys-Pro.

Biological Activity: The ED50 as determined by the dose-dependant stimulation of human

MO7e cells is < 0.2 ng/ml, corresponding to a Specific Activity of 5 x 106 IU/mg.

Molecular weight: 14 kDa 14004 Dalton.

Storage: Lyophilized Interleukin-9 although stable at room temperature for 3 weeks, should be

stored desiccated below -18°C. Upon reconstitution IL9 should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a

carrier protein (0.1% HSA or BSA). Please avoid freeze-thaw cycles.

General Readings: 1. 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.

2. 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.

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3. Devos S, Cormont F, Vrtala S, Hooghe-Peters E, Pirson F, Snick J. Allergen-induced

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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.

- 4. Expression of interleukin-9 in nasal natural kill er/T-cell lymphoma cell lines and patients. Clin Cancer Res 2005 Dec 1;11(23):8250-7
- 5. 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.
- 6. Yang L, Aozasa K, Oshimi K, Takada K. Epstein-Barr virus (EBV)-encoded RNA promotes growth of EBV-infected T cells through interleukin-9 induction. Cancer Res. 2004 Aug 1;64(15):5332-7. PubMed PMID: 15289339.

Pictures:

Precursor- Protein structure and amino acid sequen

