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PA1065 OriGene EU

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Recombinant Human Interleukin-1 beta (IL-1 beta)

Catalog No.:PA106Quantity:2 μgBackground:Interlation	olin, IL-1 beta, IL1 beta, IL1B, IL1F2 5 eukin-1b is produced by activated macrophages; IL-1b stimulates thymocyte eration by inducing IL-2 release, B-cell maturation and proliferation, and fibroblast in factor activity. IL-1b proteins are involved in the inflammatory response, being fied as endogenous pyrogens, and are reported to stimulate the release of aglandin and collagenase from synovial cells.
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Uniprot ID: P0158	<u>4</u>
NCBI: <u>NP_0</u>	<u>00567.1</u>
GenelD: <u>3553</u>	
Species: Huma	n
Source: E. col	
Purity (a) Ar (b) Ar Purifi Buffe conta Recor	Sterile filtered white freeze-dried powder : >98% pure as determined by: alysis by RP-HPLC. alysis by SDS-PAGE. ed by proprietary chromatographic techniques System: The protein was lyophilized from a concentrated (1 mg/ml) sterile solution ining 50 mM Phosphate buffer, pH 7.1, and 150 mM NaCl. stitution: It is recommended to reconstitute the lyophilized IL-1 beta in sterile 18MΩ- O not less than 100 μ g/ml, which can then be further diluted to other aqueous ons.
conta by pro AA Se The s Ala-F Biolo stand Speci lymph	hbinant Human IL-1 beta produced in E.coli is a non-glycosylated polypeptide chain ining 153 amino acids having a molecular mass of 17000 Dalton. rHuIL-1b is purified prietary chromatographic techniques. quence: equence of the first five N-terminal amino acids was found to be: ro-Val-Arg-Ser. gical Activity: Interleukin-1 beta is fully biologically active when compared to ard. fic Activity: The specific activity as determined in the test of augmentation of ocyte proliferation assay using mouse thymus was found to be 2.0 x 10e8 IU/mg. ular weight: 17 kDa
1. UV	n quantitation was carried out by two independent methods: spectroscopy at 280 nm using the absorbency value of 0.631 as the extinction cient for a 0.1% (1mg/ml) solution. This value is calculated by the PC GENE computer

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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AN ORIGENE COMPANY	PA1065: Recombinant Human Interleukin-1 beta (IL-1 beta)
	analysis program of protein sequences (IntelliGenetics). 2. Analysis by RP-HPLC, using a calibrated solution of Recombinant IL-1 beta as a reference standard.
Storage:	Lyophilized IL-1 beta although stable at room temperature for 3 weeks, should be stored desiccated below -20°C.
	Upon reconstitution IL-1 beta should be stored at 2-8°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). Avoid repeated freezing and thawing. Shelf life: one year from despatch.
General Readings:	 Gershanovich ML, Filatova LV, Ketlinsky SA, Simbirtsev AS. Recombinant human interleukin-1 beta: new possibilities for the prophylaxis and correction of toxic myelodepression in patients with malignant tumors. II. Phase II study of the protective effect of recombinant human interleukin-1 beta on myelodepression induced by chemotherapy in cancer patients. Eur Cytokine Netw. 2001 Oct-Dec;12(4):671-5. PubMed PMID: 11781195. Gershanovich ML, Filatova LV, Ketlinsky SA, Simbirtsev AS. Recombinant human interleukin-1 beta: new possibilities for the prophylaxis and correction of toxic myelodepression in patients with malignant tumors. I. Phase I-II clinical trials of recombinant human interleukin-1 beta as a leukopoiesis stimulator in cancer patients receiving combination chemotherapy. Eur Cytokine Netw. 2001 Oct-Dec;12(4):664-70. PubMed PMID: 11781194. Chen NN, Wu SG. [Effect of recombinant human interleukin-1 beta on K+ channels of mice bone marrow stromal cells]. Sheng Li Xue Bao. 1999 Dec;51(6):637-44. PubMed PMID: 11498933. Abramov VM, Vasiliev AM, Vasilenko RN, Kulikova NL, Kosarev IV, Khlebnikov VS, et al. Structural and functional similarity between Yersinia pestis capsular protein Caf1 and human interleukin-1 beta. Biochemistry. 2001 May 22;40(20):6076-84. PubMed PMID: 11352744. Iwasaki LR, Haack JE, Nickel JC, Reinhardt RA, Petro TM. Human interleukin-1 beta and interleukin-1 receptor antagonist secretion and velocity of tooth movement. Arch Oral Biol. 2001 Feb;46(2):185-9. PubMed PMID: 11163326.
Pictures:	AA Sequence
	Legend: ————————————————————————————————————
	Sequence: 1 HeVPELRSE HHHYYSCHED DLFFERDOPK OMKCSFODLD LCPLDCCIOL RISDHHYSKG 1 FROMRSWAR HBKLRHUN CPOTFOENDL STFFPFIFEE EPIFTDINN ERVHDAPUR 1 HIB



Conflict 61 FROMSUWM MUKLRXMLVP CPOTFOENDL STFFPFIFEE EPIFFDTMUN ERVHUDAPVR 115 111 Fromework 1121 SLNCTLRDSQ GKSLVHSGPY ELKALHLOGQ DHEQQUVFSH SFVQGEESHD KIPVALGE 121 SLNCTLRDSQ GKSLVHSGPY SLNCTLRDQ GKSLVHSGPY SLNCTLRDSQ GKSLVHSGPY SLNCTLRDY SLNCTLRDQ GKSLVHSQ GKSLVHSGPY SLNCTLRDQ GKSLVHSQ GKSLVHSQ GKSLVHSQ GKSLVHSQ GKSLVHSQ GKSLVHSQ G

Beta-strand region
 Beta-strand region

241 SORENHIPVEL COTKCCODIT DETHOPVES Interleukin-1 beta precursor Interleukin-1 beta precursor Interleukin-1 beta precursor Interleukin-1 beta precursor Beta-strand region

AKSUMBER Enderson

OG/20130814