

Active Recombinant Porcine IL1B2

Cat. No. IL1B2-90P Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant IL 1 beta Porcine produced in E.coli cells is a non-glycosylated, homodimeric protein containing 153 amino acid chain and having a molecular mass of 17.6kDa. The IL 1 beta is purified by proprietary chromatographic techniques.
Species	Pig
Source	E.coli
ProteinLength	153 a.a.
Description	Interleukin-1b is produced by activated macrophages, IL-1B stimulates thymocyte proliferation by inducing il-2 release, b-cell maturation and proliferation, and fibroblast growth factor activity. IL1B proteins are involved in the inflammatory response, being identified as endogenous pyrogens, and are reported to stimulate the release of prostaglandin and collagenase from synovial cells.
Form	Sterile Filtered White lyophilized (freeze-dried) powder. The IL 1 beta was lyophilized from a 0.2µ filtered concentrated solution in PBS pH 7.4, containing 3 % trehalose.
Bio-activity	Fully biologically active when compared to standard. The ED50 as determined by a cell proliferation assay using murine D10S cells is less than 5.0 ng/ml, corresponding to a specific activity of $> 2.0 \times 10^5$ IU/mg.
Molecular Mass	17.6kDa

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

AA Sequence	ANVQSMECKL QDKDHLKSLVL AGPHMLKALH LLTGDLKREV VFCMSFVQGD DSNNKIPVTL GIKGKNLYLS CVMKDNTPTL QLEDIDPKRY PKRDMEKRFV FYKTEIKNRV EFESALYPNW YISTSQAEQK PVFLGNSKGR QDITDFTMEV LSP
Purity	Greater than 95.0% as determined by RP-HPLC and SDS-PAGE.
Stability	Lyophilized IL 1 beta although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution IL 1 beta 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 prevent freeze-thaw cycles.
Reconstitution	It is recommended to reconstitute the lyophilized IL 1 beta in sterile distilled H2O not less than 100g/ml, which can then be further diluted to other aqueous solutions.

GENE INFORMATION

Gene Name	IL1B2 interleukin 1, beta 2 [<i>Sus scrofa</i> (pig)]
Official Symbol	IL1B2
Synonyms	IL1B2; IL1B; IL-1beta; interleukin 1, beta 2; interleukin 1, beta; interleukin-1 beta
Gene ID	396565
mRNA Refseq	NM_001005149
Protein Refseq	NP_001005149
Chromosome Location	3

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA



Pathway

African trypanosomiasis; Chagas disease (American trypanosomiasis); Cytosolic DNA-sensing pathway

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA