

Active Recombinant Pig IL-1beta

Cat. No. IL-1beta-599P **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Pig IL-1beta produced in E. coli is approximately 17.6 kDa, a single non-glycosylated polypeptide chain containing 153 amino acids.
Species	Pig
Source	E.coli
Description	Interleukin-1 beta (IL-1β) is a non-secreted proinflammatory cytokine produced mainly by activated macrophages, as well as neutrophils, epithelial cells, and endothelial cells. It possesses metabolic, physiological, haematopoietic activities, and plays one of the central roles in the regulation of the immune responses. Both IL-1α and IL-1β binds to the same receptor and has similar but not identical biological properties. Recombinant porcine interleukin-1 beta is a 17 kDa protein containing 153 amino acid residues and it shares 63 % - 70 % a.a. sequence identity with canine, cotton rat, equine, feline, human, mouse, rat, and rhesus IL1β.
Form	Lyophilized from a 0.2 μ m filtered concentrated solution in PBS, pH 7.4, 3 % trehalose.
Bio-activity	Fully biologically active when compared to standard. The ED 50 determined by a cell proliferation assay using murine D10S cells is less than 7.5 ng/ml, corresponding to a specific activity of $>1.3 \times 10^5$ IU/mg.
Molecular Mass	17.6 kDa

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AA Sequence	ANVQSMECKL QDKDHLKSLVL AGPHMLKALH LLTGDLKREV VFCMSFVQGD DSNNKIPVTL GIKGKNLYLS CVMKDNTPTL QLEDIDPKRY PKRDMEKRFV FYKTEIKNRV EFESALYPNW YISTSQAEQK PVFLGNSKGR QDITDFTMEV LSP
Endotoxin	Less than 1 EU/μg of rPoIL-1β as determined by LAL method.
Purity	>95% by SDS-PAGE and HPLC analyses.
Usage	This material is for research, laboratory or further evaluation purposes. NOT FOR HUMAN USE.
Storage	This lyophilized preparation is stable at 2-8 centigrade, but should be kept at -20 centigrade for long term storage, preferably desiccated. Upon reconstitution, the preparation is stable for up to one week at 2-8 centigrade. For maximal stability, apportion
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1% BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportion

GENE INFORMATION

Gene Name	IL-1beta interleukin-1 beta [<i>Sus scrofa</i> (pig)]
Official Symbol	IL-1beta
Synonyms	IL-1beta;interleukin-1 beta
Gene ID	396565

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mRNA Refseq	NM_001005149.1
Protein Refseq	NP_001005149.1
Chromosome Location	chromosome: 3
Pathway	African trypanosomiasis;Alzheimer"s disease;Amoebiasis

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