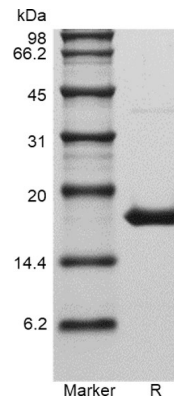


IL1B

Recombinant Human IL-1 beta, GMP Grade

Catalog No.	CRI135A-GMP CRI135B-GMP	Quantity:	5 µg 100 µg
Alternate Names:	Interleukin-1 beta, IL-1 beta, Catabolin		
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, hematopoietic 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; The mature human IL1β shares 96% amino acid sequence identity with rhesus and 67% - 78% with canine, mouse, and rat IL-1β.		
	Manufacturing and testing of this product complies with ICH Q7 guidelines.		
UniProt ID:	P01584		
Source:	<i>E. coli</i>		
Molecular Weight:	~17.4 kDa (153 aa) monomer		
Formulation:	Lyophilized from sterile-filtered PBS, 3% Trehalose, pH 5.0		
Purity:	> 98% by SDS-PAGE and HPLC		
Endotoxin Level:	< 0.01EU/µg as determined by LAL method.		
Contaminants:	< 0.10% host cell protein by ELISA		
Biological Activity:	ED ₅₀ < 1.0 pg/ml, determined by dose-dependent cell proliferation assay using murine D10S cells.		
Specific Activity:	> 1.0 × 10 ⁹ U/mg		
Amino Acid Sequence:	APVRSLNCTL RDSQQKSLVM SGPYELKALH LQGQDMEQQV VFSMSFVQGE ESNDKIPVAL GLKEKNLYLS CVLKDDKPTL QLESVDPKNY PKKKMEKRFV FNKIEINNKL EFESAQFPNW YISTSQAENM PVFLGGTKGG QDITDFTMQF VSS		
Reconstitution:	Centrifuge the vial prior to opening. Reconstitute with sterile water at 0.1-1.0 mg/ml by gently pipetting to wash down the sides of the vial to ensure full recovery of the protein into solution. Do not vortex. Allow a few minutes for complete solubilization.		
Storage & Stability:	Lyophilized vial is shipped at ambient temperature. Immediately upon receipt, store unopened vial at -20°C (manual defrost freezer) or -80°C for up to 36 months. Upon reconstitution, prepare working aliquots and store at -20°C (manual defrost freezer) or -80°C. It is recommended that a carrier protein such as 0.1% HSA or BSA is added for long term storage. For short term storage reconstituted material is stable for 4-6 weeks when stored at 2-8°C. Avoid repeated freeze-thaw cycles.		
Applications:	For <i>ex vivo</i> use only. Not for injection or diagnostic procedures. The safety and efficacy of this product in diagnostic or other clinical uses has not been established.		
Country of Origin:	USA		

SDS-PAGE GMP Grade rhIL-1 beta
Single Prominent band at ~17.4 kDa



NOT FOR HUMAN USE. FOR RESEARCH ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.



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