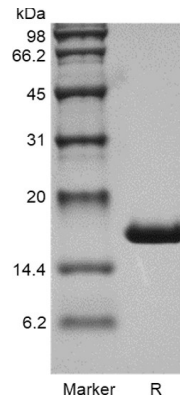


IL1A

Recombinant Human IL-1 alpha, GMP Grade

Catalog No.	CRI136A-GMP CRI136B-GMP	Quantity:	5 µg 100 µg
Alternate Names:	Interleukin-1 alpha, IL-1 alpha, Hematopoietin-1		
Description:	Interleukin-1 alpha (IL-1α) 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 identical biological properties. Among various species, the amino acid sequence of mature IL-1α is conserved 60% to 70% and human IL-1 has been found to be biologically active on murine cell lines.		
	Manufacturing and testing of this product complies with ICH Q7 guidelines.		
UniProt ID:	P01583		
Source:	<i>E. coli</i>		
Molecular Weight:	~18.0 kDa (159 aa) monomer		
Formulation:	Lyophilized from sterile-filtered 25 mM Tris-HCl, 3 mM 2-Me, 5% Trehalose, pH 8.0		
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:	SAPFSFLSNV KYNFMRIIKY EFILNDALNQ SIIRANDQYL TAAALHNLDE AVKFDMGAYK SSKDDAKITV ILRISKTKLY VTAQDEDQPV LLKEMPEIPK TITGSETNLL FFWETHGTKN YFTSVAHPNL FIATKQDYWV CLAGGPPSIT DFQILENQA		
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 alpha
Single Prominent band at ~18.0 kDa



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



Cell Sciences®
65 Parker Street
Unit 11
Newburyport, MA 01950

Toll Free: 888-769-1246
Phone: 978-572-1070
Fax: 978-992-0298

E-mail: info@cellsciences.com
Website: www.cellsciences.com