

Il1a

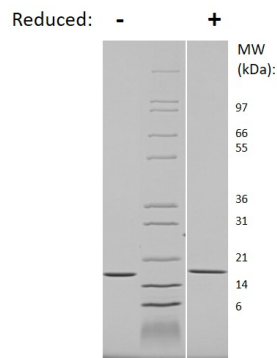
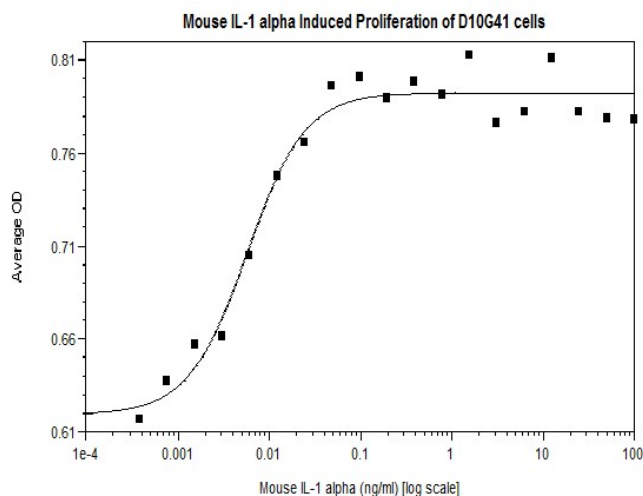
Recombinant Mouse Interleukin-1 alpha, Animal Free

Catalog No.	CRI138A-AF CRI138B-AF CRI138C-AF	Quantity:	2 µg 10 µg 1.0 mg
Alternate Names:	IL-1a		
Description:	Interleukin-1 alpha is a non-secreted proinflammatory cytokine produced in a variety of cells including monocytes, tissue macrophages, keratinocytes and other epithelial cells. Both IL-1 alpha and IL-1 beta binds to the same receptor and has similar if not identical biological properties. These cytokines have a broad range of activities including, stimulation of thymocyte proliferation, by inducing IL-2 release, B-cell maturation and proliferation, mitogenic FGF-like activity and the ability to stimulate the release of prostaglandin and collagenase from synovial cells. However, whereas IL-1 beta is a secreted cytokine, IL-1 alpha is predominantly a cell-associated cytokine. IL-1 alpha and the independently regulated IL-1 beta protein have overlapping proinflammatory activities to induce adhesion molecule expression on epithelial cells, control fever induction, initiate rheumatoid arthritis, and promote septic shock.		
UniProt ID:	P01582		
Gene ID:	16175		
Source:	<i>E. coli</i> Manufactured without animal-derived reagents in an Animal Free facility.		
Molecular Weight:	18.1 kDa (157 aa) monomer		
Formulation:	Lyophilized from a sterile filtered solution containing 10 mM sodium phosphate, pH 7.5.		
Purity:	≥ 95% by reducing and non-reducing SDS-PAGE		
Endotoxin Level:	≤ 1 EU/µg determined by kinetic LAL analysis		
Biological Activity:	ED ₅₀ ≤ 10 pg/ml as determined by the dose-dependent, induced proliferation of the D10. G4.1 cell line.		
Specific Activity:	≥ 1.0 x 10 ⁸ units/mg.		
Amino Acid Sequence:	MSAPYTYQSD LRYKLMKLVR QKFVMNDSL NQTIYQDV DKLH YLSTTWLNDL QQEVKFD MYA YSSGGDDSKY PVT LKISDSQ L FVSAQGEDQ PVLLKELPET PKLITGSETD LIFFWKSINS KNYFTSAAYP ELFIATKEQS RVHLARG LPS MTDFQIS		
Reconstitution:	Centrifuge vial prior to opening. Add sterile distilled water to a concentration of 0.1 mg/mL and gently pipette the solution up and down the sides of the vial. DO NOT VORTEX. Allow several minutes for complete reconstitution.		

Storage & Stability:

Store as supplied at -20°C to -80°C for up to 1 year. Upon reconstitution, prepare working aliquots and store at -20°C to -80°C. It is recommended that a carrier protein such as 0.1% HSA or BSA is added for long term storage.

Avoid repeated freeze-thaw cycles.



Mouse IL-1 alpha Gel

Figure: 1 ug run under (-) non-reducing and (+) reducing conditions in a 4-20% Tris-Glycine gel, stained with Coomassie Blue. Mouse IL-1 alpha is predicted to have a MW of 18.1 kDa.

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



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