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IL1A
Recombinant Human Interleukin-1 alpha

Catalog No.	CRI132A	**Quantity:**	2 µg
	CRI132B		10 µg
	CRI132C		1.0 mg

Alternate Names: IL1A, IL1F1, IL-1 alpha

Gene ID: 3552

UniProt ID: P01583

Description: Produced by activated macrophages, IL-1 stimulates thymocyte proliferation by inducing IL-2 release, B-cell maturation and proliferation, and fibroblast growth factor activity. IL-1 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. IL-1 alpha and IL-1 beta have overlapping proinflammatory activities, to control fever induction, initiate rheumatoid arthritis and promote septic shock.

Source: *E. coli*

Molecular Weight: predicted 18.0 kDa, monomer (159 aa)

Formulation: Lyophilized from a sterile filtered solution of 10 mM sodium phosphate, pH 7.5

Purity: ≥95% by reducing and non-reducing SDS-PAGE

Endotoxin Level: <1 EU/µg, by kinetic LAL

Amino Acid Sequence: SAPFSFLSNV KYNFMRIIKY EFILNDALNQ SIIRANDQYL TAAALHNLDE AVKFDMGAYK SSKDDAKITV ILRISKTQLY VTAQDEDQPV LLKEMPEIPK TITGSETNLL FFWETHGTKN YFTSVAHPNL FIATKQDYWV CLAGGPPSIT DFQILENQA

Biological Activity: $ED_{50} \leq 50$ pg/ml, determined by a proliferation assay using murine D10S cells.

Specific Activity: $\geq 2.0 \times 10^7$ units/mg

Reconstitution: **Centrifuge vial prior to opening.** Add sterile distilled water or aqueous buffer to a concentration of 0.1-1.0 mg/mL. Further dilutions should be made in appropriate buffered solutions.

Storage & Stability: Stable, as supplied, short term at 2-8°C, at -20°C to -80°C 1 year. Upon reconstitution as directed, stable for up to 1 week at 2-8°C. For longer term, store in working aliquots below -20°C to -80°C for 3 months.
Avoid repeated freeze/thaw cycles.

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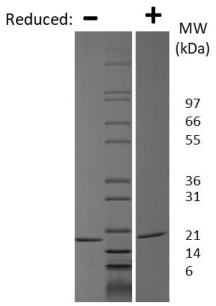
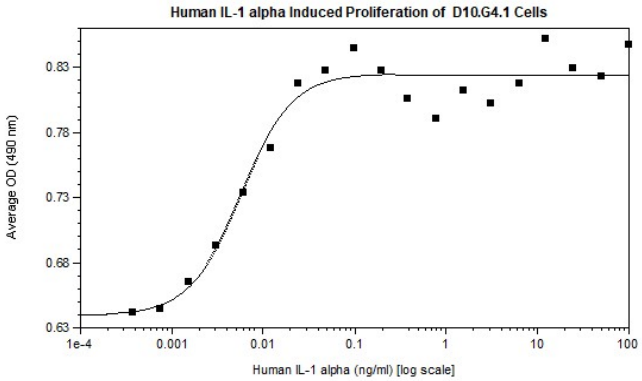


Human IL-1 alpha / IL-1F1 Gel
Figure: 1 ug run under (-) non-reducing conditions and (+) reducing conditions in a 4-20% Tris-Glycine gel, stained with Coomassie Blue. Human IL-1 alpha / IL-1F1 is predicted to have a MW of 18 kDa.



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