


Human IL-1 α protein

Cat #: PRP100048

Size: 20 μ g/100 μ g/1mg

Product Information

	Product Name: Human IL-1 α protein		
REF	Catalog Number: PRP100048	LOT	Lot Number: Refer to product label
	Purity: > 95 % as determined by SDS-PAGE		
	Storage: Store at -20°C		Preparation method: Human Cells
	Shipping: The product is shipped at ambient temperature.		

Background: IL-1 α is a member of the interleukin 1 cytokine family. Cytokines are proteinaceous signaling compounds that are major mediators of the immune response. They control many different cellular functions including proliferation, differentiation and cell survival/apoptosis but are also involved in several pathophysiological processes including viral infections and autoimmune diseases. Cytokines are synthesized under various stimuli by a variety of cells of both the innate (monocytes, macrophages, dendritic cells) and adaptive (T- and B-cells) immune systems. Cytokines can be classified into two groups: pro- and anti-inflammatory. Pro-inflammatory cytokines, including IFN γ , IL-1, IL-6 and TNF- α , are predominantly derived from the innate immune cells and Th1 cells. Anti-inflammatory cytokines, including IL-10, IL-4, IL-13 and IL-5, are synthesized from Th2 immune cells. IL-1 α is a pleiotropic cytokine involved in various immune responses, inflammatory processes, and hematopoiesis. It is produced by monocytes and macrophages as a proprotein, which is proteolytically processed and released in response to cell injury, and thus induces apoptosis. IL-1 α stimulates thymocyte proliferation by inducing IL-2 release, B-cell maturation and proliferation, and fibroblast growth factor activity.

Sequence: Amino acid sequence derived from the processed form of human IL1 α (NP_000566.3) (Ser 113-Ala 271) was expressed and purified.

Protein length: The recombinant human IL1 α consists of 159 amino acids and has a predicted molecular mass of 18 kDa. As a result of glycosylation, the apparent molecular mass of rhIL1 α is approximately 22 kDa in SDS-PAGE under reducing conditions.

Formulation: Lyophilized from sterile 50mM Tris, 100mM NaCl, pH 8.0.

Storage Instructions: Lyophilized Human IL-1 α protein product should be stored desiccated below -18°C. Upon reconstitution, the protein should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

Usage notes: Always centrifuge tubes before opening. It is recommended to reconstitute the lyophilized Human IL-1 α protein in sterile ddH₂O not less than 100 μ g/ml, which can then be further diluted to other aqueous solutions.

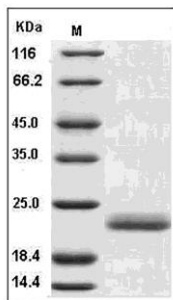


Fig. SDS-PAGE analysis of Human IL-1 α protein.

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