

Human IL-1 α Protein, His tag (Animal-Free)

Cat #: PRP1003

Size: 5 μ g/20 μ g/100 μ g/1 mg

Product Information

	Product Name: Human IL-1 α Protein, His tag (Animal-Free)		
REF	Catalog Number: PRP1003	LOT	Lot Number: Refer to product label
	Purity: >98% as determined by SDS-PAGE		
	Storage: Store at -20°C		Preparation method: E.coli
	Shipping: The product is shipped at ambient temperature.		

Background: Interleukin-1 alpha (IL1 alpha or IL1 α) is a member of the interleukin-1 cytokine family, found constitutively present in epithelial layers of the entire gastrointestinal tract, lung, liver, kidney, endothelial cells, and astrocytes. Both precursor and mature IL-1 alpha protein bind to the IL-1 receptor (IL-1R), initiating a cascade of inflammatory cytokines and chemokines production such as IL-6, IL-8, and TNF, in response to viral and bacterial pathogens conditions. IL-1 alpha plays a central role in immune-surveillance mechanisms, stimulating macrophages, neutrophils, and CD8+ T cells activity.

Sequence:Amino acid sequence derived from Human IL-1 α (Ser113-Ala271)(P01583) was expressed with 6 $\times$ His tag at the C-terminus.

Protein length: The recombinant Human IL-1 α Protein consists of 159 amino acids and predicts a molecular mass of 19 kDa.

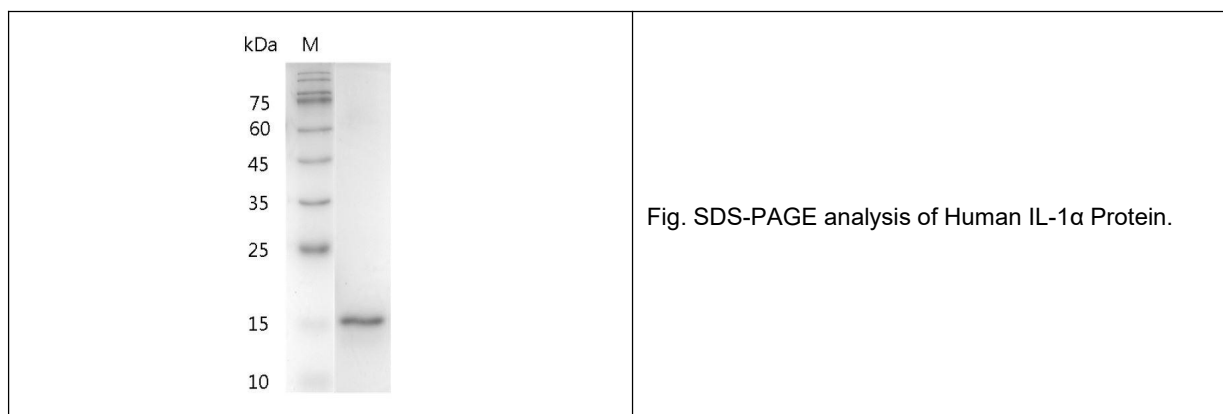
Biological Activity: Measured by its ability to induce D10.G4.1 cells proliferation.The ED₅₀ for this effect is <10 pg/mL.

Endotoxin: <0.1 EU per 1 μ g of the protein by the LAL method.

Formulation: Lyophilized from PBS, pH 8.0.

Storage Instructions: Lyophilized 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 (5% HSA , 10%FBS or 0.1%BSA). Please prevent freeze-thaw cycles.

Usage notes: Always centrifuge tubes before opening. It is recommended to reconstitute the lyophilized recombinant protein to a concentration of 0.1-1 mg/mL using the buffer we provided, and keep at room temperature for at least 20 min to fully dissolve. Please avoid vortex vigorously.



Note: The product listed herein is for research use only and is not intended for use in human or clinical diagnosis. Suggested applications of our products are not recommendations to use our products in violation of any patent or as a license. We cannot be responsible for patent infringements or other violations that may occur with the use of this product.