


Human IL-1 β protein, His tag (Animal-Free)

Cat #: PRP1060

Size: 5 μ g/20 μ g/100 μ g/1 mg

Product Information

	Product Name: Human IL-1 β protein, His tag (Animal-Free)		
REF	Catalog Number: PRP1060	LOT	Lot Number: Refer to product label
	Purity: > 98 % as determined by SDS-PAGE		
	Storage: Store at -20°C		Preparation method: <i>E. coli</i>
	Shipping: The product is shipped at ambient temperature.		

Background: Interleukin-1 beta (IL-1 β) is a major cytokine expressed in macrophage, NK cells, monocytes, and neutrophils. It also plays fundamental role in inflammatory response, including monocyte activation, which is essential for the host defense and pathogen and pathogen resistance. Pro-IL-1 β is cleaved by cytosolic caspase 1 to form mature IL-1 β .

Sequence: Amino acid sequence derived from Human IL-1 β (Gly21-Asn132)(NP_000567.1) was expressed with 6xHis tag at the C-terminus.

Protein length: The secreted Human IL-1 β consists of 112 amino acids and has a predicted molecular mass of 18.5 kDa.

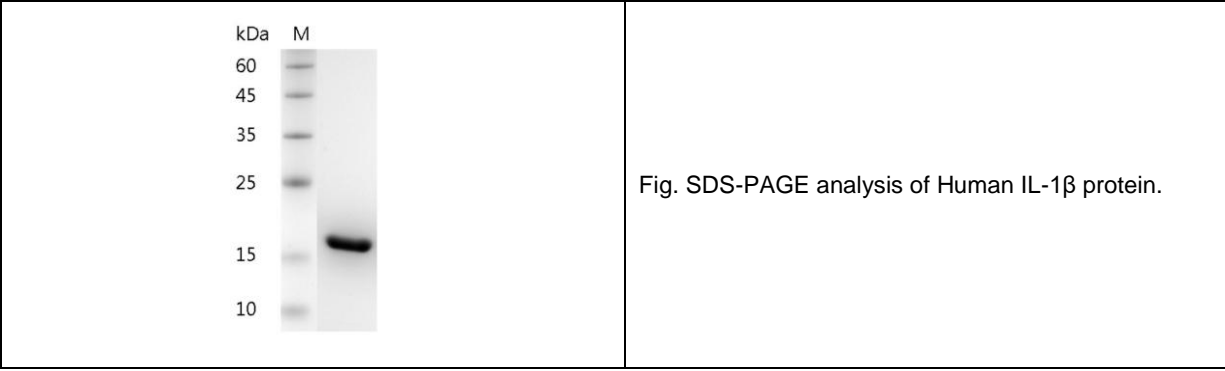
Biological Activity: Measure by its ability to induce IL-8 secretion in HT29 cells. The ED₅₀ for this effect is <2.0 ng/mL.

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

Formulation: Lyophilized from sterile PBS, pH 8.0.

Storage Instructions: Lyophilized Human IL-1 β 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% BSA, 10% FBS or 5% HSA). Please prevent freeze-thaw cycles.

Usage notes: Always centrifuge tubes before opening. It is recommended to reconstitute the lyophilized Human IL-1 β protein to a concentration of 0.1-1 mg/mL in sterile ddH₂O, and keep at room temperature for at least 20 min to fully dissolve. Please avoid vortex vigorously.



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