


Human IL-12 β protein, Fc Tag

Cat #: PRP100018

Size: 50 μ g/500 μ g

Product Information

	Product Name: Human IL-12 β protein, Fc Tag		
REF	Catalog Number: PRP100018	LOT	Lot Number: Refer to product label
	Purity: > 85 % as determined by SDS-PAGE		
	Storage: Store at -20°C		Preparation method: Human Cells
	Shipping: The product is shipped at ambient temperature.		

Background: Subunit beta of interleukin 12 (also known as natural killer cell stimulatory factor 2, or cytotoxic lymphocyte maturation factor 2, p40) (IL-12 β) is a subunit of human interleukin 12. IL-12 β is a cytokine that acts on T and natural killer cells, and has a broad array of biological activities. Interleukin 12 is a disulfide-linked heterodimer composed of the 40 kD cytokine receptor like subunit encoded by this gene, and a 35 kD subunit encoded by IL12A. IL-12 β is expressed by activated macrophages that serve as an essential inducer of Th1 cells development. This cytokine has been found to be important for sustaining a sufficient number of memory/effector Th1 cells to mediate long-term protection to an intracellular pathogen. Overexpression of this gene was observed in the central nervous system of patients with multiple sclerosis (MS), suggesting a role of this cytokine in the pathogenesis of the disease. The promoter polymorphism of this gene has been reported to be associated with the severity of atopic and non-atopic asthma in children. IL-12 β associates with IL23A to form the IL-23 interleukin, an heterodimeric cytokine which functions in innate and adaptive immunity.

Sequence: Amino acid sequence derived from p40 subunit of human IL12, termed asIL-12 β (NP_002178.2) (Met 1-Ser 328) was fused with the Fc region of human IgG1 at the C-terminus.

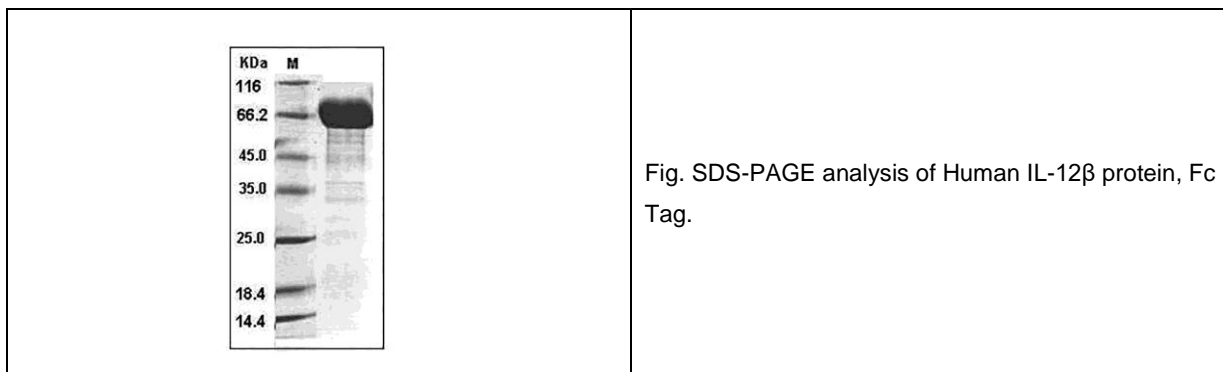
Protein length: The recombinant human IL-12 β consists of 544 amino acids and has a predicted molecular mass of 61.4 kDa.

Formulation: Lyophilized from sterile 100mM Glycine, 10mM NaCl, 50mM Tris, pH 7.5.

Storage Instructions: Lyophilized Human IL-12 β protein, Fc Tag 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-12 β

protein, Fc Tag in sterile ddH₂O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.



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