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Human IL-17A Protein

Cat #: PRP1226 Size: 5 μg/20 μg/100 μg/1 mg

Product Information

	Product Name: Human IL-17A Protein		
REF	**Catalog Number:** PRP1226	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-17A (IL-17A), also known as CTLA-8, belongs to the IL-17 cytokine family. IL-17A is expressed in memory Th17 cells and is a product of memory CD4+T cells. In addition to Th17 cells, IL-17A can also be produced by various immune cells, including CD8+T cells γδ T cells, natural killer T (NKT) cells, monocytes, and neutrophils. IL-17A plays a crucial role in the host's defense mechanisms against many bacterial and fungal pathogens, as well as in allergic and autoimmune responses. IL-17A plays a role in viral infection by promoting neutrophil inflammation. IL-17A is a homodimeric cytokine with similar biological activity to IL-17F. IL-17A and IL-17RA have high affinity binding, and IL-17RA is essential for the biological activity of IL-17A. IL-17A cannot bind to T cells, B cells, and myeloid cells lacking IL-17RA. IL-17A is associated with various autoimmune diseases, such as rheumatoid arthritis, multiple sclerosis, inflammatory bowel disease, asthma, and psoriasis. IL-17A also plays a pathogenic role in cancer. During tumor development, IL-17A recruits bone marrow-derived suppressor cells (MDSCs) to suppress anti-tumor immunity. IL-17A also promotes tumor growth in vivo by inducing IL-6.

Sequence: Amino acid sequence derived from Human IL-17A (Ile20-Ala155) (Q16552) was expressed.

Protein length: The recombinant Human IL-17A consists of 136 amino acids and predicts a molecular mass of 15.7 kDa.

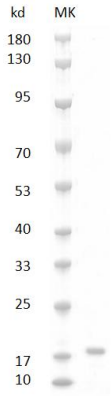
Biological Activity: Testing in Progress.

Endotoxin: <0.1 EU per μg of the protein by the LAL method.

Formulation: Lyophilized from 20 mM Tris-HCl, 50 mM NaCl, pH8.0.

Storage Instructions: Lyophilized protein product should be stored desiccated below -20°C. Upon reconstitution, the protein should be stored at 4°C between 2-7 days and for future use below -20°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 protein using the buffer we provided not less than 100 μg/ml, which can then be further diluted to other aqueous solutions.

	Fig. SDS-PAGE analysis of Human IL-17A Protein.

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