

Human IL-6, Tag Free Protein

HA210797



Product name:	Human IL-6, Tag Free
Species reactivity:	Human
Bio-Activity:	Measured in a cell proliferation assay using TF 1 human erythroleukemic cells. The ED50 for this effect is 0.2-0.8 ng/mL
Protein construction description:	A DNA sequence encoding the human IL-6 protein (P05231) (Vla 30-Met 212) was expressed with tag free.

Background: Cytokine with a wide variety of biological functions in immunity, tissue regeneration, and metabolism. Binds to IL6R, then the complex associates to the signaling subunit IL6ST/gp130 to trigger the intracellular IL6-signaling pathway (Probable). The interaction with the membrane-bound IL6R and IL6ST stimulates 'classic signaling', whereas the binding of IL6 and soluble IL6R to IL6ST stimulates 'trans-signaling'. Alternatively, 'cluster signaling' occurs when membrane-bound IL6:IL6R complexes on transmitter cells activate IL6ST receptors on neighboring receiver cells (Probable). IL6 is a potent inducer of the acute phase response. Rapid production of IL6 contributes to host defense during infection and tissue injury, but excessive IL6 synthesis is involved in disease pathology. In the innate immune response, is synthesized by myeloid cells, such as macrophages and dendritic cells, upon recognition of pathogens through toll-like receptors (TLRs) at the site of infection or tissue injury (Probable). In the adaptive immune response, is required for the differentiation of B cells into immunoglobulin-secreting cells. Plays a major role in the differentiation of CD4+ T cell subsets. Essential factor for the development of T follicular helper (T_{fh}) cells that are required for the induction of germinal-center formation. Required to drive naive CD4+ T cells to the Th17 lineage. Also required for proliferation of myeloma cells and the survival of plasmablast cells.

Purity:	>95% as determined by SDS-PAGE.
Endotoxin:	Less than 1.0 EU per µg by the LAL method.
Fragment region:	IL-6 (30-212)
Source:	HEK293
Accession:	P05231
Predicted molecular mass:	20.9 kD
Formulation:	Lyophilized from a 0.2 µm filtered solution of PBS, pH7.4, 5% Trehalose, 5% mannitol.
Reconstitution:	Reconstitute at 250 µg/ml in sterile water.
Storage:	Please avoid repeated freeze-thaw cycles. Samples are stable for up to twelve months from date of receipt at -20°C to -80°C. It is recommended that aliquot the reconstituted solution to minimize freeze-thaw cycles.

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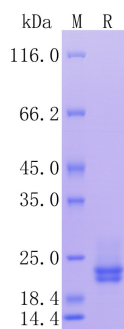


Fig1: Protein on SDS-PAGE under reducing (R) condition.

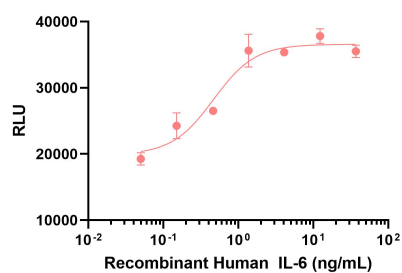


Fig2: Measured in a cell proliferation assay using TF 1 human erythroleukemic cells. The ED₅₀ for this effect is 0.2-0.8 ng/mL

Note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".