

Human IL-15, C-Flag Tag Protein

HA210773



Product name:	Human IL-15, C-Flag Tag
Species reactivity:	Human
Bio-Activity:	Measured in a cell proliferation assay using NK-92 human natural killer cells. The ED50 for this effect is 0.2-1 ng/mL.
Protein construction description:	A DNA sequence encoding the human IL-15 protein (P40933-1) (Asn 49-Ser 162) was expressed with a Flag tag at the C-terminus.

Background: Cytokine that plays a major role in the development of inflammatory and protective immune responses to microbial invaders and parasites by modulating immune cells of both the innate and adaptive immune systems. Stimulates the proliferation of natural killer cells, T-cells and B-cells and promotes the secretion of several cytokines. In monocytes, induces the production of IL8 and monocyte chemoattractant protein 1/CCL2, two chemokines that attract neutrophils and monocytes respectively to sites of infection. Unlike most cytokines, which are secreted in soluble form, IL15 is expressed in association with its high affinity IL15RA on the surface of IL15-producing cells and delivers signals to target cells that express IL2RB and IL2RG receptor subunits. Binding to its receptor triggers the phosphorylation of JAK1 and JAK3 and the recruitment and subsequent phosphorylation of signal transducer and activator of transcription-3/STAT3 and STAT5. In mast cells, induces the rapid tyrosine phosphorylation of STAT6 and thereby controls mast cell survival and release of cytokines such as IL4 (By similarity).

Purity: >95% as determined by SDS-PAGE.

Endotoxin: Less than 1.0 EU per µg by the LAL method.

Fragment region: IL-15 (49-162)

Source: HEK293

Accession: P40933-1

Predicted molecular mass: 14.4 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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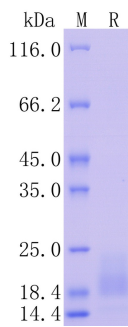


Fig1: Protein on SDS-PAGE under reducing (R) condition.

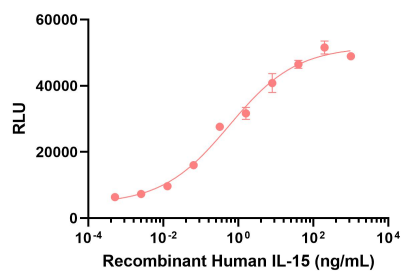


Fig2: Measured in a cell proliferation assay using NK-92 human natural killer cells. The ED_{50} for this effect is 0.2-1 ng/mL.

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