

Product Description

Pioneering GTPase and Oncogene Product Development since 2010

HUMAN IL-15RAANDIL-15 (C-FC) PROTEIN

Cat.#: 12092

Product Name: Human IL-15RAandIL-15 (C-Fc) Protein

Size: 10 µg; 50 µg and 100 µg

Synonyms: IL15RAandIL15;Interleukin-15;IL-15;IL15;IL-15 receptor subunit

alpha;IL-15RA;IL-15R-alpha;interleukin-15 receptor subunit alpha

Target: IL-15RAandamp;IL-15 **UNIPROT ID:** Q13261;P40933

Description: Recombinant Human Interleukin-15 Receptor Alpha And Interleukin-15 Fusion Protein Is Produced By Our Mammalian Expression

System And The Target Gene Encoding Ile31-Asp96AndAsn49-Ser162(Asn120Asp) Is Expressed With A Fc Tag At The C-Terminus.

Background: IL15RA is a high-affinity receptor for interleukin-15. Il15ra associates as a heterotrimer with the IL-2 receptor beta and gamma subunits to initiate signal transduction. It can signal both in cis and trans where IL15R from one subset of cells presents IL15 to neighboring IL2RGexpressing cells. II15ra is expressed in special cells including a wide variety of Tand B cells and non-lymphoid cells.IL-15 is a cytokine that regulates T cell and natural killer cell activation and proliferation. IL-15 binds to the alpha subunit of the IL-15RA with high affinity. IL-15 also binds to the beta and gamma chains of the IL-2 receptor, but not the alpha subunit of the IL2 receptor. IL-15 is structurally and functionally related to IL-2. Both cytokines share some subunits of receptors, allowing them to compete for and negatively regulate each other's activity. The number of CD8 memory T cells is controlled by a balance between IL-15 and IL-2. Despite their many overlapping functional properties, IL-2 and IL-15 are, in fact, quite distinct players in the immune system. IL-15 is constitutively expressed by a wide variety of cell types and tissues, including monocytes, macrophages and DCs.

Species/Host: HEK293

Molecular Weight: 46.9 KDa

Molecular Characterization: Not available

Purity: Greater than 95% as determined by reducing SDS-PAGE.

Formulation & Reconstitution: Lyophilized from nanodisc solubilization buffer (20 mM Tris-HC, 150 mM NaC, pH 8.0). Normally 5% – 8% trehalose is added as protectants before lyophilization.



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Storage & Shipping: Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient temperature.

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Figure 1. Greater than 95% as determined by reducing SDS-PAGE.