A Reliable Research Partner in Life Science and Medicine

Recombinant Human Interleukin-15/IL-15 Protein

Catalog Number: PKSH033630

Note: Centrifuge before opening to ensure complete recovery of vial contents.

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Species Human

Source E.coli-derived Human Interleukin-15/IL-15 protein Asn49-Ser162, with an N-terminal

His

Calculated MW 13.7 kDa
Observed MW 13 kDa
Accession P40933

Bio-activity Measure by its ability to induce proliferation in CTLL-2 cells. The ED₅₀ for this effect

is < 3 ng/mL. The specific activity of recombinant human IL-15 is $> 2 \times 10^6$ IU/mg.

Properties

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

Endotoxin < 0.01 EU per μ g of the protein as determined by the LAL method.

Storage Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80

°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of

reconstituted samples are stable at < -20°C for 3 months.

Shipping This product is provided as lyophilized powder which is shipped with ice packs.

Formulation Lyophilized from sterile PBS,pH 8.0.

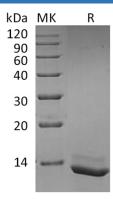
Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants

before lyophilization.

Please refer to the specific buffer information in the printed manual.

Reconstitution Please refer to the printed manual for detailed information.

Data



> 95 % as determined by reducing SDS-PAGE.

Background

Elabscience®

Elabscience Biotechnology Co., Ltd.

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Human Interleukin 15 (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 IL15 receptor (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 othe r'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. Mature Human IL-15 shares 70% amino acid sequence identity with Mouse and Rat IL-15.