



Recombinant Human IL-15
(Interleukin-15)

Catalog Number: 100-86
Accession Number: P40933

Specifications and Uses:

Alternate Names: IL-T

Description:

Interleukin 15 (IL-15) is a widely expressed pro-inflammatory cytokine related to IL-2. IL-15 promotes activation of T cells, neutrophils and macrophages and is critical to dendritic cell function in several model systems. IL-15 has been shown to play a role in several inflammatory disorders, including rheumatoid arthritis, psoriasis and pulmonary inflammatory diseases. Emerging data suggests that IL-15 may serve as a good therapeutic target, as there appears to be a beneficial effect of IL-15 neutralization in models of psoriasis and diabetes. Human IL-15 shows activity on mouse cells. Recombinant human IL-15 is a non-glycosylated protein, containing 114 amino acids, with a molecular weight of 12.8 kDa.

Source: *E.coli*

Physical Appearance: Sterile filtered white lyophilized (freeze-dried) powder.

Formulation and Stability:

Recombinant human IL-15 was lyophilized from a 1mg/mL solution with 5 mM Tris pH 8.0. Lyophilized product is very stable at -20°C. Reconstituted material should be aliquoted and frozen at -20°C. It is recommended that a carrier protein (0.1% HSA or BSA) is added for long term storage.

Reconstitution:

Centrifuge vial before opening. When reconstituting the product, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution. It is recommended to reconstitute the lyophilized product with sterile water at a concentration of 0.1 mg/mL, which can be further diluted into other aqueous solutions.

Protein Content and Purity (typically ≥ 98%) determined by:

HPLC, Reducing and Non-reducing SDS-PAGE, UV spectroscopy at 280 nm

Endotoxin Level:

Measured by kinetic LAL analysis and is typically ≤ 1 EU/μg protein.

Biological Activity:

The activity is determined by the dose-dependant stimulation of the proliferation of mouse CTLL-2 cells and is typically less than 0.5 ng/mL.

AA Sequence:

MNWWNVISDL KKIEDLIQSM HIDATLYTES DVHPSCKVTA MKCFLLELQV ISLESGDASI HDTVENLIL
ANNSLSSNGN VTESGCKECE ELEEKNIKEF LQSFVHIVQM FINTS

THIS PRODUCT IS FOR RESEARCH USE ONLY AND IS NOT FOR USE IN HUMANS!

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