



Recombinant Mouse IL-15
(Interleukin-15)

Catalog Number: 200-07
Accession Number: P48346

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 suggest 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 mouse IL-15 is a non-glycosylated protein, containing 115 amino acids, with a molecular weight of 13.3 kDa.

Source: *E.coli*

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

Formulation and Stability:

Recombinant mouse IL-15 was lyophilized from a concentrated (1mg/mL) solution of 10 mM Na₂PO₄, 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 ≥ 95%) determined by:

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 dose-dependent induction of CTLL-2 cell proliferation and is typically less than 5 ng/mL.

AA Sequence:

MNWIDVRYDL EKIESLIQSI HIDTTLTYTDS DFHPSCKVTA MNCFLLELQV ILHEYSNMTL NETVRNVLYL
ANSTLSSNKN VAESGCKECE ELEEKTFTEF LQSFIRIVQM FINTS

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

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