



Recombinant Mouse IL-2
(Interleukin-2)

Catalog Number: 200-17
Accession Number: P04351

Specifications and Uses:

Alternate Names: T cell growth factor, TCGF, Aldesleukin

Description:

Interleukin-2 (IL-2) is an immuno-modulatory cytokine produced by stimulated T cells. IL-2 signals through the IL-2R receptor to induce proliferation of activated T cells. IL-2 also stimulates proliferation and differentiation of B cells, natural killer cells, monocytes and macrophages. Recombinant mouse IL-2 is a non-glycosylated protein, containing 149 amino acids, with a molecular weight of 17.2 kDa.

Source: *E.coli*

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

Formulation and Stability:

Recombinant mouse IL-2 (1mg/mL) is lyophilized after extensive dialysis against 10 mM sodium citrate buffer to pH 4. 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 its ability to induce the proliferation of CTLL-2 cells and is typically 0.1-0.4 ng/mL.

AA Sequence:

PTSSSTSSST AEAQQQQQQQ QQQQHQHLEQL LMDLQELLSR MENYRNLKLP RMLTFKFYLP KQATELKDLDQ
CLEDELGPLR HVLDLTQSKS FQLEDAENFI SNIRVTVVKL KGSDNTFECQ FDDESATVVVD FLRRWIAFCQ
SIISTSPQ

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

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