



Recombinant Mouse IL-5
(Interleukin-5)

Catalog Number: 200-20
Accession Number: P04401

Specifications and Uses:

Alternate Names: EDF, BCDFII, TRF

Description:

Interleukin-5 (IL-5) is a hematopoietic growth factor expressed in Th2, mast cells and eosinophils. IL-5 acts through its receptor, the IL-5 receptor (IL-5R) and is involved in B cell growth and eosinophil activation. IL-5 has been shown to be and is regulated by GATA-3, in addition to other transcription factors. Human and mouse IL-5 are cross-reactive. Recombinant mouse IL-5 is a non-glycosylated, disulfide-linked homodimer, containing two 113 amino acid chains, with a total molecular weight of 26.2 kDa.

Source: *E.coli*

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

Formulation and Stability:

Recombinant mouse IL-5 is lyophilized from 20 mM Na₂PO₄, pH 7.5.

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 ≥ 97%) determined by:

Reducing and Non-reducing SDS-PAGE, HPLC

Endotoxin Level:

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

Biological Activity:

The activity is determined by the dose-dependent induction of TF-1 cell proliferation and is typically less than 2 ng/mL.

AA Sequence:

MEIPMSTVVK ETLTQLSAHR ALLTSNETMR LPVPTHKNHQ LCIGEIFQGL DILKNQTVRG GTVEMLFQNL
SLIKKYIDRQ KEKCGEERRR TRQFLDYLQE FLGVMSTEWA MEG

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

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