

BACKGROUND:

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. It is comprised of two 113 amino acid chains with a total molecular weight of 26.2 kDa.

Cat. No.:
 RP2020AF

Alternate Names:
 IL-T

AA Sequence:

MNWIDVRYDL	EKIESLIQSI	HIDTTLYTDS
DFHPSCKVTA	MNCFLELQV	ILHEYSNMTL
NETVRNVLYL	ANSTLSSNKN	VAESGCKECE
ELEEKTFTEF	LQSFIRIVQM	FINTS

TECHNICAL INFO

Source:
E. coli

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

Formulation:
 10 mM sodium phosphate, pH 7.5

Stability:
 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 0.1 mg/mL, which can be further diluted into other aqueous solutions.

Protein Content and Purity determined by:

- UV spectroscopy at 280 nm.
- RP-HPLC calibrated against a known standard.
- Quantitation against a known standard via reducing and non-reducing SDS-PAGE gels.

Endotoxin Level:
 Endotoxin level, as measured by LAL analysis, is <0.01ng/ug or <0.1EU/ug.

Biological Activity:
 The activity is measured by dose-dependent CTLL-2 cell proliferation, with Bioactivity Acceptance Criteria ED50 at 20 ng/mL.

Animal Component-Free
 This product is produced with no animal derived raw products. All processing and handling employs animal free equipment and animal free protocols.

