

Recombinant Murine Interleukin-5 (m-IL-5)

CATALOG #: 4141-10 10 µg
4141-1000 1 mg

LOT #: _____

SOURCE: *E. coli*

PURITY: > 97 % by SDS-PAGE and RP-HPLC analysis
Endotoxin level is < 0.01 ng per µg of m-IL-5.

MOL. WEIGHT: 26.2 kDa

FORM: Lyophilized from 20 mM Sodium phosphate buffer, pH 7.5

RECONSTITUTION:

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.

STORAGE CONDITIONS:

The lyophilized product is very stable at -20 °C. Upon reconstitution the material should be aliquoted and frozen at -20 °C. It is recommended to add a carrier protein (0.1% HSA or BSA) for long term storage.

DESCRIPTION:

Mouse Interleukin-5 (mIL-5) is a glycoprotein also known as EDF and TRF. It is involved in B-cell growth and eosinophil activation. IL-5 has been shown to be expressed in Th2, mast cells and eosinophils and is regulated by GATA-3, in addition to other transcription factors. IL-5 signals its biological effect through interaction with the IL-5 receptor (IL-5R). Recombinant mIL-5 is produced in E.Coli, comprised of two 113 amino acid chains forming a disulfide-linked homodimer with a molecular weight of 26.2 kDa.

BIOLOGICAL ACTIVITY:

Mouse IL-5 is fully biologically active as compared to standard. The ED₅₀, as calculated by the dose-dependent induction of TF-1 cell proliferation, is 1.7ng/ml.

AA SEQUENCE:

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

FOR RESEARCH USE ONLY! Not to be used in humans.

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