

PRODUCT DATA SHEET



Bioworld Technology, Inc.

Recombinant IL-5, Rat

Catalog Number: BK0108-1mg

Source: Escherichia coli.

Quantity: 1mg

Description:

Interleukin-5 (IL-5), produced by mast cells, T cells and eosinophils, is responsible for the activities attributed to eosinophil differentiating factor, B cell growth factor II and T cell-replacing factor (TRF). It can increase production and mobilization of eosinophils and CD34+ progenitors from the bone marrow. IL-5 plays an important role in inducing cell-mediated immunity against parasitic infections and certain tumors. IL-5 also promotes differentiation of basophils and primes them for histamine and leukotriene release. Recombinant rat Interleukin-5 (rrIL-5) produced in E.coli is a disulfide-linked homodimer containing two non-glycosylated polypeptide chains of 113 amino acids each. A fully biologically active molecule, rrIL-5 has a molecular mass of 26.0 kDa analyzed by non-reducing SDS-PAGE and is obtained by proprietary chromatographic techniques at GenScript.

Molecular Weight:

26.0 kDa, observed by non-reducing SDS-PAGE.

Purity:

> 95% by SDS-PAGE analysis.

Biological Activity:

ED50 < 0.4 ng/mL, measured by a cell proliferation assay using TF-1 Cells, corresponding to a specific activity of > 2.5 × 10⁶ units/mg.

Physical Appearance:

Sterile Filtered White lyophilized (freeze-dried) powder.

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Formulation:

Lyophilized after extensive dialysis against 20mM Tris, pH8.5.

AA Sequence:

MEIPMSTVVKETLIQLSTHRALLTSNETMRL-
PVPTHKNHQLCIGEIFQGLDILK-
NQTVRGGTVEILFQNLSLIK-
KYIDGQKEKCGEERRKTRHFLDYLQEFLGVM-
STEWAMEV

Endotoxin:

< 0.2 EU/μg, determined by LAL method.

Reconstitution:

Reconstituted in ddH₂O at 100 μg/mL.

Storage:

Lyophilized recombinant rat Interleukin-5 (rrIL-5) remains stable up to 6 months at -80 °C from date of receipt. Upon reconstitution, rrIL-5 should be stable up to 2 weeks at 4 °C or up to 3 months at -20 °C.

Usage:

This material is offered by USA Bioworld biotech for research, laboratory or further evaluation purposes. For research use only.