

PRODUCT DATA SHEET



Bioworld Technology, Inc.

Recombinant IL-5, Human

Catalog Number: BK0106-1mg

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 Human Interleukin-5 (rhIL-5) produced in E.coli is a disulfide-linked homodimer containing two non-glycosylated polypeptide chains of 116 amino acids each. A fully biologically active molecule, rhIL-5 has a molecular mass of 26.5 kDa analyzed by non-reducing SDS-PAGE and is obtained by proprietary chromatographic techniques at GenScript.

Molecular Weight:

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

Purity:

> 95% by SDS-PAGE.

Biological Activity:

ED50 < 1.0 ng/ml, measured by a cell proliferation assay using TF-1 Cells, corresponding to a specific activity of > 1.0 × 10⁶ units/mg.

Physical Appearance:

Sterile Filtered White lyophilized (freeze-dried) pow-

der.

Formulation:

Lyophilized after extensive dialysis against 25mM Tris, pH8.0.

AA Sequence:

MIPTEIPTSALVKETLALLSTHRTLIIANETLRIPV
PVHKNHQLCTEEIFQGIGTLESQTVQGGTVER-
LFKNLSLIKKY-
KY-
IDGQKKKCGEERRRVNQFLDYLQEFLGVMNTE
WIIES

Endotoxin:

< 0.2 EU/μg, determined by LAL method.

Reconstitution:

Reconstituted in ddH₂O at 100 μg/ml.

Storage:

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

Usage:

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