

PRODUCT DATA SHEET



Bioworld Technology, Inc.

Recombinant IL-5, Human(CHO-expressed)

Catalog Number: BK0249-1mg

Source: CHO

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 IL-5 is homodimeric protein with molecular weight ranging from 29 to 35 kDa due to glycosylation.

Molecular Weight:

~29-35 kDa, observed by non-reducing SDS-PAGE.

Purity:

> 95% as analyzed by SDS-PAGE and HPLC.

Biological Activity:

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

Physical Appearance:

Sterile Filtered White lyophilized (freeze-dried) powder.

Formulation:

Lyophilized after extensive dialysis against PBS.

AA Sequence:

IPTEIPTSALVKETLALLSTHRTLLIANETLRIPVPV
HKNHQLCTEEIFQGIGTLESQTVQGGTVER-
LFKNLSLIKKY-
KY-
IDGQKKKCGEERRRVNQFLDYLQEFLGVMNTE
WIIES

Endotoxin:

< 0.2 EU/μg, determined by LAL method.

Reconstitution:

Reconstituted in ddH₂O or PBS 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 1 week at 4 °C or up to 2 months at -20 °C.

Usage:

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