

PRODUCT DATA SHEET



Bioworld Technology, Inc.

Recombinant IL-3, Human(CHO-expressed)

Catalog Number: BK0243-10 μ g

Source: CHO

Quantity: 10 μ g

Description:

Interleukin-3 (IL-3) is a hematopoietic growth factor that promotes the survival, differentiation and proliferation of committed progenitor cells of the megakaryocyte, granulocyte-macrophage, erythroid, eosinophil, basophil and mast cell lineages. Produced by T cells, mast cells and eosinophils, IL-3 enhances thrombopoieses, phagocytosis, and antibody-mediated cellular cytotoxicity. Its ability to activate monocytes suggests that IL-3 may have additional immunoregulatory roles. Many of the IL-3 activities depend upon co-stimulation with other cytokines. IL-3 is species-specific, variably glycosylated cytokine. Recombinant human interleukin 3 expressed in CHO cells is glycosylated protein with molecular weight range from 17 to 30 kDa shown in non-reducing SDS-PAGE.

Molecular Weight:

17-30 kDa, observed by non-reducing SDS-PAGE.

Purity:

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

Biological Activity:

ED₅₀ < 0.1 ng/ml, measured in a cell proliferation assay using TF-1 cells, corresponding to a specific activity of > 1 \times 10⁷ units/mg.

Physical Appearance:

Sterile Filtered White lyophilized (freeze-dried) pow-

der.

Formulation:

Lyophilized after extensive dialysis against PBS.

AA Sequence:

APMTQTTPLKTSWVNCNSNMIDEIITHLKQP-
PLPLDFNNLNGEDQDILMENNLRPNLEAF-
NRAVKSLQNASAIESILKNLL-
PCLPLATAAPTRHPIHIKDGDWNEFRRKLT-
FYLKTLNAQAQQTTLAIF

Endotoxin:

< 0.2 EU/ μ g, determined by LAL method.

Reconstitution:

Reconstituted in ddH₂O or PBS at 100 μ g/ml.

Storage:

Lyophilized recombinant human Interleukin 3 (IL-3) remains stable up to 6 months at -80 $^{\circ}$ C from date of receipt. Upon reconstitution, rhIL-3 should be stable up to 1 week at 4 $^{\circ}$ C or up to 2 months at -20 $^{\circ}$ C.

Usage:

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