

PRODUCT DATA SHEET



Bioworld Technology, Inc.

Recombinant IL-13, Human(CHO-expressed)

Catalog Number: BK0232-1mg

Source: CHO

Quantity: 1mg

Description:

Interleukin 13 (IL-13) is an immunoregulatory cytokine produced primarily by activated Th2 cells, and also by mast cells and NK cells. Targeted deletion of IL-13 in mice resulted in impaired Th2 cell development and indicated an important role for IL-13 in the expulsion of gastrointestinal parasites. IL-13 exerts anti-inflammatory effects on monocytes and macrophages and it inhibits the expression of inflammatory cytokines such as IL-1beta, TNF-alpha, IL-6 and IL-8. IL-13 has also been shown to enhance B cell proliferation and to induce isotype switching resulting in increased production of IgE. Blocking of IL-13 activity inhibits the pathophysiology of asthma. Human and mouse IL-13 is cross-species reactive. Recombinant human interleukin 13 expressed in CHO cells is glycosylated protein with molecular weight range from 25 to 45 kDa shown in non-reducing SDS-PAGE.

Molecular Weight:

25-45 kDa, observed by non-reducing SDS-PAGE.

Purity:

> 95% as analyzed by SDS-PAGE.

Biological Activity:

ED50 < 15 ng/ml, measured in a cell proliferation assay using TF-1 cells, corresponding to a specific activity of > 6.7×10⁵ units/mg.

Physical Appearance:

Sterile Filtered White lyophilized (freeze-dried) powder.

Formulation:

Lyophilized after extensive dialysis against PBS.

AA Sequence:

SPGPVPPSTALRE-
LIEELVNITQNQKAPLCNGSMVWSINLTAGMY-
CAALESLINVSGCSAIEKTQRM-
LSGFVCPHKVSAGQFSSLHVRDTKI-
EVAQFVKDLLLHLKFLFREGFRN

Endotoxin:

< 0.2 EU/μg, determined by LAL method.

Reconstitution:

Reconstituted in ddH₂O or PBS at 100 μg/ml.

Storage:

Lyophilized recombinant human Interleukin 13 (IL-13) remains stable up to 6 months at -80 °C from date of receipt. Upon reconstitution, rhIL-13 should be stable up to 1 week at 4 °C or up to 2 months at -20 °C.

Usage:

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