

Recombinant human IL-5 protein

Catalog Number: ATGP3510

PRODUCT INFORMATION

Expression system

Baculovirus

Domain

20-134aa

UniProt No.

P05113

NCBI Accession No.

NP_000870

Alternative Names

Interleukin-5, IL-5, EDF, TRF, T-cell replacing factor, B cell differentiation factor I, Eosinophil differentiation factor, Colony-stimulating factor eosinophil, BCGF-I

PRODUCT SPECIFICATION

Molecular Weight

14.2 kDa (124aa)

Concentration

0.5mg/ml (determined by absorbance at 280nm)

Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

Purity

> 90% by SDS-PAGE

Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

Biological Activity

Measured in a cell proliferation assay using TF-1 human erythroleukemic cells. The ED50 range ≤ 1.5 ng/ml.

Tag

His-Tag

Application

SDS-PAGE, Bioactivity

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Recombinant human IL-5 protein

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Description

IL5, also known as interleukin-5, is a member of the hematopoietin receptor superfamily and is comprised of a cytokine-specific alpha chain and the common beta chain that is shared among these cytokines for signaling. It related hematopoietic cytokines that are important for allergic inflammation. It is a lineage-specific cytokine for eosinophilopoiesis and plays an important part in diseases associated with increased eosinophils, such as asthma. Recombinant human IL5, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

Amino acid Sequence

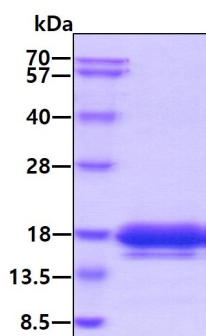
<ADP>IPTEIPT SALVKETLAL LSTHRTLLIA NETLRIPVPV HKNHQLCTEE IFQGIGTLES QTVQGGTVER LFKNLSLIKK YIDGQKKKCG EERRRVNQFL DYLQEFLGVM NTEWIIES<HH HHHH>

General References

Martinez-Moczygomba M., et al. (2003) J Allergy Clin Immunol. 112:653-665.
Milburn MV., et al. (1993) Nature. 363:172-176.

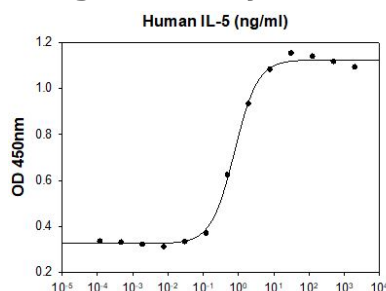
DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

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