

Recombinant mouse IL-5 Protein

Catalog Number: ATGP4029

PRODUCT INFORMATION

Expression system

Baculovirus

Domain

21-133aa

UniProt No.

P04401

NCBI Accession No.

NP_034688

Alternative Names

Interleukin-5, B-cell growth factor II, BCGF-II, Cytotoxic T-lymphocyte inducer, Eosinophil differentiation factor, T-cell replacing factor, TRF, EDF

PRODUCT SPECIFICATION

Molecular Weight

13.9kDa (119aa)

Concentration

0.25mg/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 \leq 1 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 mouse 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. This interleukin produced by type-2 T helper cells and mast cells. It related hematopoietic cytokines that are important for allergic inflammation.. It is a lineage-specific cytokine for eosinophilpoiesis and plays an important part in diseases associated with increased eosinophils, such as asthma. In humans, IL-5 primarily affects cells of the eosinophilic lineage, and promotes their differentiation, maturation, activation, migration and survival, while in mice IL-5 also enhances Ig class switching and release from B1 cells. IL-5 also promotes differentiation of basophils and primes them for histamine and leukotriene release. Recombinant mouse IL-5, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

Amino acid Sequence

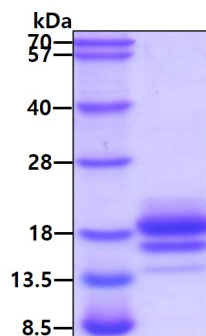
MEIPMSTVVK ETLTQLSAHR ALLTSNETMR LPVPTHKNHQ LCIGEIFQGL DILKNQTVRG GTVEMLFQNL SLIKKYIDRQ KEKCGEERRR TRQFLDYLQE FLGVMSTEWA MEG<HHHHHH>

General References

Shen HH., et al, (2003) J. Immunol. 170 (6): 3296-3305.
Sanderson CJ., et al, (1992) Blood. 79 (12): 3101-3109.

DATA

SDS-PAGE



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

Biological Activity

Mouse IL-5 in a cell proliferation assay using TF-1 human erythroleukemic cells. The ED50 range ≤ 1 ng/ml.

