

IL-5 active protein

Recombinant mouse IL-5 protein

CATALOG # AAA48400	HOST HEK293	APPLICATIONS SDS-Page
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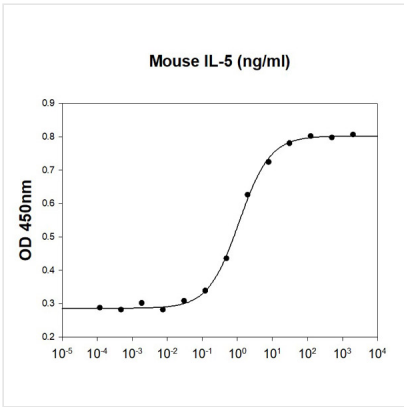
PRODUCT SYNONYMS

IL-5; Recombinant mouse IL-5 protein; interleukin 5; IL; IL-5; B-cell growth factor II; BCGF-II; Cytotoxic T-lymphocyte inducer; Eosinophil differentiation factor; T-cell replacing factor; TRF; B-cell differentiation factor I; EDF; IL5; TRFB cell differentiation factor I; IL-5 active protein

PRODUCT SPECIFICATIONS

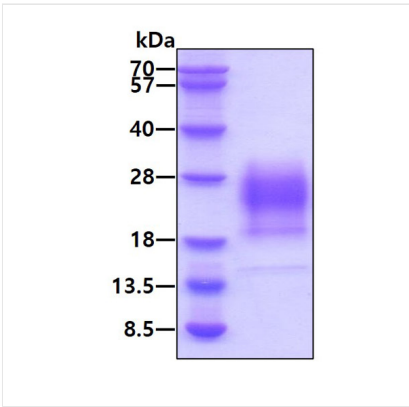
Host	HEK293
Purity/Purification	>90% by SDS-PAGE
Form/Format	Liquid. In Phosphate-Buffered Saline (pH7.4) containing 10% glycerol
Concentration	0.25mg/ml (determined by Absorbance at 280nm) (varies by lot)
Sequence Positions	21-133aa
Sequence	MEIPM STVVKETLTQ LSAHRALLTS NETMRLPVPT HKNHQLCIGE IFQGLDILKN QTVRGGTVEM LFQNLSLIKK YIDRQKEKCG EERRRTRQFL DYLQEFLGVM STEWAMEG
Applicable Applications for IL-5 active protein	Bioactivity, SDS-PAGE
Endotoxin	<1 EU per 1ug of protein (determined by LAL method)
Species	Mouse
Tag	His-Tag
Predicted N-term	Asp
Bioactivity	Measured in a cell proliferation assay using TF-1 human erythroleukemic cells. The ED50 range <= 3ng/ml.
Preparation and Storage	Can be stored at +2C to +8 degree C for 1 week. For long term storage, aliquot and store at -20C to -80 degree C. Avoid repeated freezing and thawing cycles.

IMAGES



Bioactivity

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



SDS-PAGE

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

ADDITIONAL INFORMATION

Related Product Information for IL-5 active protein	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 HEK293 and purified by using conventional chromatography techniques.
Product Categories/Family for IL-5 active protein	Immunology; Proteins
References	Martinez-Moczygemba M., et al. (2003) J Allergy Clin Immunol. 112:653-665. Milburn MV., et al. (1993) Nature. 363:172-176.

NCBI AND UNIPROT INFORMATION

NCBI GI #	6754336
NCBI GeneID	16191
NCBI Accession #	NP_034688.1
NCBI GenBank Nucleotide #	NM_010558.1
UniProt Accession #	P04401
Molecular Weight	15,410 Da
NCBI Official Full Name	interleukin-5
NCBI Official Synonym Full Names	interleukin 5
NCBI Official Symbol	IL5
NCBI Official Synonym Symbols	IL-5
NCBI Protein Information	interleukin-5; B-cell growth factor II; BCGF-II; T-cell replacing factor; TRF; cytotoxic T-lymphocyte inducer; eosinophil differentiation factor
UniProt Protein Name	Interleukin-5
UniProt Gene Name	IL5

UniProt Synonym Gene Names	IL-5; IL-5; BCGF-II; TRF
UniProt Entry Name	IL5_MOUSE

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/hek293-active-protein/il-5/48400>