

IL-4 active protein

Recombinant human IL-4 protein

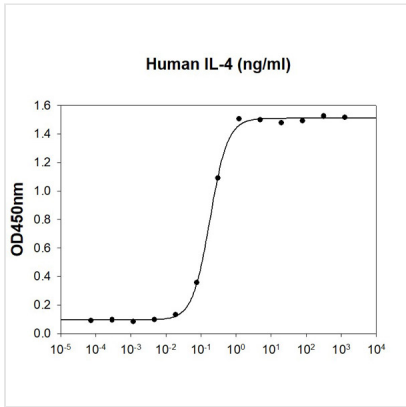
CATALOG # AAA48382	HOST HEK293	APPLICATIONS SDS-Page
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PRODUCT SYNONYMS

IL-4; Recombinant human IL-4 protein; Interleukin-4 isoform 1; B cell growth factor 1; B-cell stimulatory factor 1; BCDF; BCGF1; BCGF-1; binetrakin; BSF1;BSF-1; interleukin 4; Lymphocyte stimulatory factor 1; MGC79402; pitrakinra; IL-4 active protein

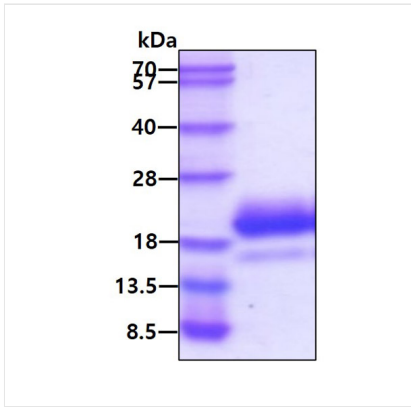
PRODUCT SPECIFICATIONS

Host	HEK293
Purity/Purification	>90% by SDS-PAGE
Form/Format	Liquid. In Phosphate-Buffered Saline (pH7.4) containing 10% glycerol
Concentration	0.5mg/ml (determined by Absorbance at 280nm) (varies by lot)
Sequence Positions	25-153aa
Sequence	HKCD ITLQEIKTL NSLTEQKTLT TELTVTDIFA ASKNTTEKET FCRAATVLRQ FYSHHEKDTR CLGATAQQFH RHKQLIRFLK RLDRNLWGLA GLNSCPVKEA NQSTLENFLE RLKTIMREKY SKCSS
Applicable Applications for IL-4 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 cell. The ED50 range <= 0.5ng/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.



Bioactivity

Human IL-4 in a cell proliferation assay using TF-1 human erythroleukemic cell. 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-4 active protein	IL-4 is a multi-functional cytokine that plays a critical role in the regulation of immune responses. It induces differentiation of naive helper T cells to Th2 cells. Upon activation by IL-4, Th2 cells subsequently produce additional IL-4 in a positive feedback loop. IL-4 is produced primarily by mast cells, Th2 cells, eosinophils and basophils. It is closely related and has functions similar to interleukin 13. This protein has many biological roles, including the stimulation of activated B-cell and T-cell proliferation, and the differentiation of B cells into plasma cells. It is a key regulator in humoral and adaptive immunity. IL-4 plays a dominant role in the development of allergic inflammation and asthma. Also, it is crucial in the development of allergic airway inflammation originates. Recombinant human IL-4, fused to His-tag at C-terminus, was expressed in HEK293 cell and purified by using conventional chromatography techniques.
Product Categories/Family for IL-4 active protein	Immunology; Hormones & Cytokines; Proteins
References	Bhattarai P., et al, (2016) Cell Reports. 17: 941-948. Cheng Ho., et al, (2016) Adv Exp Med Biol. 941:31-77. Marsha Wills-Karp., et al, (2008) Sci Signal. 1:pe55.

NCBI AND UNIPROT INFORMATION

NCBI GI #	4504669
NCBI GeneID	3565
NCBI Accession #	NP_000580
NCBI GenBank Nucleotide #	NM_000589.3
UniProt Accession #	P05112; Q14630; Q6NZ77
Molecular Weight	17.2kDa (150aa), confirmed by MALDI-TOF.
NCBI Official Full Name	interleukin-4 isoform 1
NCBI Official Synonym Full Names	interleukin 4
NCBI Official Symbol	IL4
NCBI Official Synonym Symbols	BSF1; IL-4; BCGF1; BSF-1; BCGF-1
NCBI Protein Information	interleukin-4
UniProt Protein Name	Interleukin-4
UniProt Gene Name	IL4

UniProt Synonym Gene Names	IL-4; BSF-1
UniProt Entry Name	IL4_HUMAN

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-4/48382>