

IL-9 active protein

Recombinant IL-9

CATALOG # AAA48322	HOST Baculovirus	APPLICATIONS SDS-Page
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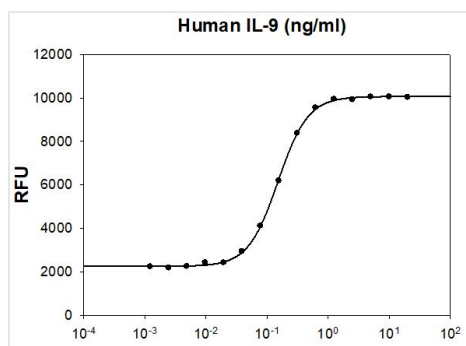
PRODUCT SYNONYMS

IL-9; Recombinant IL-9; Interleukin-9; HP40; IL9; P40; Cytokine P40; T-cell growth factor P40; IL-9 active protein

PRODUCT SPECIFICATIONS

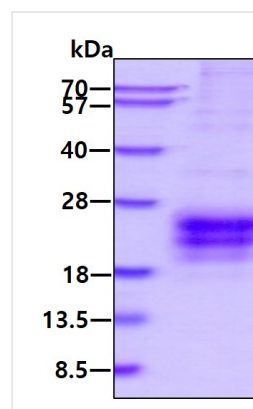
Host	Baculovirus
Purity/Purification	> 85% by SDS - PAGE
Form/Format	Liquid. In Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol
Concentration	0.5mg/ml (determined by BCA assay) (varies by lot)
Sequence Positions	19-144aa
Sequence	QGCPTLAGIL DINFLINKMQ EDPASKCHCS ANVTSCCLG IPSDNCTRPC FSERLSQMTN TTMQTRYPLI FSRVKKSVEV LKNNKCPYFS CEQPCNQTTA GNALTFLKSL LEIFQKEKMR GMRGKI
Sequence Length	144
Applicable Applications for IL-9 active protein	Bioactivity, SDS-PAGE
Tag	His-Tag
Biological Activity	Measured in a cell proliferation assay using MO7e human megakaryocytic leukemic cells. The ED50 range <= 0.3 ng/ml.
Predicted nterm	Gln 19
Endotoxin	< 1 EU per 1ug of protein (determined by LAL method)
Preparation and Storage	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.

IMAGES



Bioactivity

Human IL-9 stimulates cell proliferation of the MO7e human megakaryocytic leukemic 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-9 active protein	IL-9, also known as interleukin 9, is a cytokine (cell signalling molecule) belonging to the group of interleukins. This protein produced by T-cells and specifically by CD4+ helper cells that acts as a regulator of a variety of hematopoietic cells and stimulates cell proliferation and prevents apoptosis. It functions through the interleukin-9 receptor (IL9R), which activates different signal transducer and activator (STAT) proteins and thus connects this cytokine to various biological processes. Recombinant human IL-9, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.
Product Categories/Family for IL-9 active protein	Hormones & Cytokines ; Immunology
References	Purwar R, Schlapbach C, et al. (2012). Nat Med. 18(8):1248-53. ;; Pilette C, Ouadrhiri Y, et al. (2002). J Immunol. 168(8):4103-11.

NCBI AND UNIPROT INFORMATION

NCBI GI #	10834980
NCBI GeneID	3578
NCBI Accession #	NP_000581.1
NCBI GenBank Nucleotide #	NP_000581.1
UniProt Accession #	P15248
Molecular Weight	14.9kDa (132aa);; Multiple bands between 18-28kDa, reducing conditions
NCBI Official Full Name	interleukin-9
NCBI Official Synonym Full Names	interleukin 9
NCBI Official Symbol	IL9
NCBI Official Synonym Symbols	P40; HP40; IL-9
NCBI Protein Information	interleukin-9
UniProt Protein Name	Interleukin-9
UniProt Gene Name	IL9
UniProt Synonym Gene Names	IL-9
UniProt Entry Name	IL9_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/baculovirus-active-protein/il-9/48322>