

IL-4 recombinant protein

Recombinant Rat IL-4 Protein

CATALOG #
AAA283353

HOST
HEK293 cells

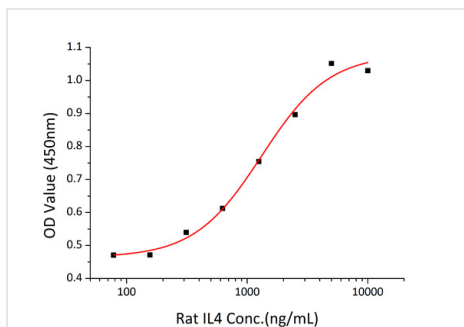
PRODUCT SYNONYMS

IL-4; Recombinant Rat IL-4 Protein; B-cell growth factor 1; B-cell IGG differentiation factor; B-cell stimulatory factor 1; BSF-1; H-IL-4; ILN; Interleukin; Interleukin-4; Interleukin4; Lymphocyte stimulatory factor 1; M-IL-4; MGC79402; IL-4 recombinant protein

PRODUCT SPECIFICATIONS

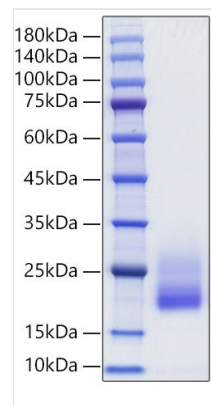
Host	HEK293 cells
Form/Format	Lyophilized from a 0.22 um filtered solution of PBS, pH7.4.
Sequence	CNDSPLREII NTLNQVTEKG TPCTEMFVPD VLTATRNTE NELICRASRV LRKFYFPRDV PPCLKNKSGV LGELRKLRCRG VSGLNSLRSC TVNESTLTTL KDFLESLSKI LRGKYLQSCT SMS
Species	Rat
Tag	C-His
Endotoxin	<0.01EU/ug of the protein by LAL method.
Bio-Activity	Measured in a cell proliferation assay using TF-1 Human erythroleukemic cells. The ED ₅₀ for this effect is 0.65-2.6ug/mL, corresponding to a specific activity of 3.85×10^2 ~ 1.54×10^3 units/mg.
Preparation and Storage	Store at -20 degree C. Store the lyophilized protein at -20 degree C to -80 degree C up to 1 year from the date of receipt. After reconstitution, the protein solution is stable at -20 degree C for 3 months, at 2-8 degree C for up to 1 week.

IMAGES



Application Data

Recombinant Rat IL-4 stimulates cell proliferation assay using TF-1 Human erythroleukemic cells. The ED₅₀ for this effect is 0.65-2.6 ug/mL, corresponding to a specific activity of 3.85×10^2 ~ 1.54×10^3 units/mg.



SDS-PAGE

Recombinant Rat IL-4 Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 15-25 kDa.

ADDITIONAL INFORMATION

Related Product Information for IL-4 recombinant protein	Interleukin-4 (IL-4) is a pleiotropic, immune-modulatory cytokine produced by activated T cells, and serves as a ligand for interleukin 4 receptor. IL-4 has been found to have the broadest range of actions. The interleukin 4 receptor also binds to IL13, which may contribute to many overlapping functions of this cytokine and IL13. STAT6, a signal transducer and activator of transcription, has been shown to play an important role in mediating the immune regulatory signal of IL-4. The IL-4 gene, IL-3, IL-5, IL-13, and CSF2 form a cytokine gene cluster on chromosome 5q. In particular, IL-4 is located in close proximity to IL13 on the chromosome. Further, the IL-4 gene, IL13 and IL5 are found to be coordinated by several long-range regulatory elements over a 120 kilobase range on the chromosome. IL-4 delta 2 is a known splice variant of IL-4.
Product Categories/Family for IL-4 recombinant protein	Cytokines & Cytokine receptors; Proteins

NCBI AND UNIPROT INFORMATION

NCBI GI #	42627877
NCBI GeneID	287287
NCBI Accession #	NP_958427.1
NCBI GenBank Nucleotide #	NM_201270.1
UniProt Accession #	P20096
UniProt Protein Name	Interleukin-4
UniProt Gene Name	IL4
UniProt Synonym Gene Names	IL-4; IL-4; BSF-1
UniProt Entry Name	IL4_RAT

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.