

IL-2 recombinant protein

Recombinant Rat IL-2 Protein

CATALOG #
AAA283364

HOST
HEK293 cells

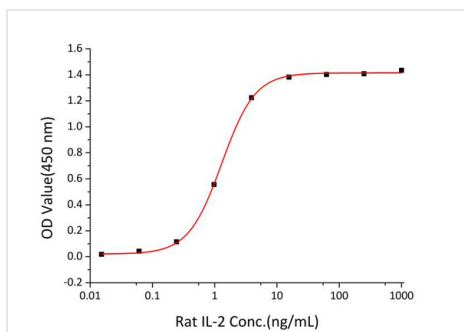
PRODUCT SYNONYMS

IL-2; Recombinant Rat IL-2 Protein; IL2; IL-2 recombinant protein

PRODUCT SPECIFICATIONS

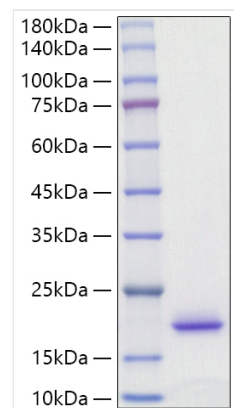
Host	HEK293 cells
Purity/Purification	>97% by SDS-PAGE.
Form/Format	Lyophilized from a 0.22 um filtered solution of PBS, pH7.4.
Sequence	PTSSPAKETQ QHLEQLLLDL QVLLRGIDNY KNLKLPMLLT FKFYLPKQAT ELKHLQCLEL ELGALQRVLD LTQSKSFHLE DAGNFISNIR VTVVKLGSE NKFEQCFDDE PATVVEFLRR WIAICQSIIS TMTQ
Species	Rat
Tag	C-His
Endotoxin	<0.1EU/ug
Bio-Activity	Measured in a cell proliferation assay using HT?2 mouse T cells. The ED50 for this effect is 0.65?2.6ng/mL, corresponding to a specific activity of 3.85×10^5 ~ 1.54×10^6 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-2 stimulates cell proliferation of the HT?2 mouse T cells. The ED50 for this effect is 0.65?2.6 ng/mL, corresponding to a specific activity of 3.85×10^5 ~ 1.54×10^6 units/mg.



SDS-PAGE

Recombinant Rat IL-2 Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 14-18 kDa.

ADDITIONAL INFORMATION

Related Product Information for IL-2 recombinant protein	Interleukin-2, also known as a T-cell growth factor, TCGF, Aldesleukin, and IL2, is a secreted protein that belongs to the IL-2 family. Interleukin-2/IL-2 was the first interleukin molecule to be discovered. Interleukin-2/IL-2 molecule was first purified to homogeneity by immunoaffinity chromatography by Kendall Smith and his team at Dartmouth Medical School. Interleukin-2/IL-2 was also the first cytokine shown to mediate its effects via a specific IL-2 receptor, and it was also the first interleukin to be cloned and expressed from a complementary DNA (cDNA) library. Interleukin-2/IL-2 was designated number 2 because Smith's data at the time indicated that IL-1, produced by macrophages, facilitates IL-2 production by T lymphocytes (T cells). Interleukin-2/IL-2 is produced by T-cells in response to antigenic or mitogenic stimulation, this protein is required for T-cell proliferation and other activities crucial to regulation of the immune response. Interleukin-2/IL-2 is normally produced by the body during an immune response. When environmental substances (molecules or microbes) gain access to the body, these substances (termed antigens) are recognized as foreign by antigen receptors that are expressed on the surface of lymphocytes. Antigen binding to the T cell receptor (TCR) stimulates the secretion of Interleukin-2/IL-2 and the expression of IL-2 receptors IL-2R. The IL-2/IL-2R interaction then stimulates the growth, differentiation, and survival of antigen-selected cytotoxic T cells via the activation of the expression of specific genes. Interleukin-2/IL-2 can stimulate B-cells, monocytes, lymphokine-activated killer cells, natural killer cells, and glioma cells.
Product Categories/Family for IL-2 recombinant protein	Cytokines & Cytokine receptors; Proteins

NCBI AND UNIPROT INFORMATION

NCBI GI #	16758692
NCBI GeneID	116562
NCBI Accession #	NP_446288.1
NCBI GenBank Nucleotide #	NM_053836.1
UniProt Accession #	P17108
UniProt Protein Name	Interleukin-2
UniProt Gene Name	IL2
UniProt Synonym Gene Names	IL-2; IL-2; TCGF
UniProt Entry Name	IL2_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.

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Online datasheet: <https://stage.aaabiotech.com/il2-recombinant-protein-hek293-cells/283364>