

Interleukin-2 Active Protein | IL2 active protein

Interleukin-2 (C145S), 22-153 aa, Human, E Coli (Bioactivity Validated)

CATALOG # AAA48459	HOST E Coli	APPLICATIONS SDS-Page
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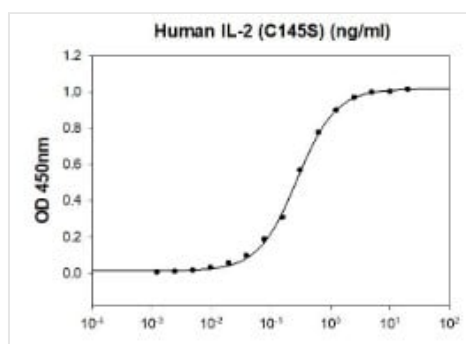
PRODUCT SYNONYMS

Interleukin-2; Interleukin-2 (C145S); 22-153 aa; Human; E Coli (Bioactivity Validated); IL-2; TCGF; Aldesleukin; T-cell growth factor; IL2; interleukin 2; IL2 active protein

PRODUCT SPECIFICATIONS

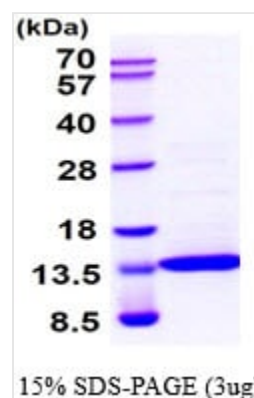
Host	E Coli
Purity/Purification	> 95% by SDS-PAGE
Form/Format	Liquid in. Phosphate-Buffered Saline (pH 7.4)
Concentration	0.5 mg/ml (determined by Bradford assay) (varies by lot)
Sequence	MPTSSSTKKT QLQLEHLLLD LQMILNGINN YKNPKLTRML TFKFYMPKKA TELKHLQCLE EELKPLEEVL NLAQSKNFHL RPRDLISNIN VIVLELKGSE TTFMCEYADE TATIVEFLNR WITFSQSIIS TLT
Sequence Length	153
Applicable Applications for IL2 active protein	Bioactivity, SDS-PAGE
Domain	22-153aa
Endotoxin Level	< 1 EU per 1ug of protein (determined by LAL method)
Biological Activity	Measured in a cell proliferation assay using CTLL2 mouse cytotoxic T cells. The ED50 range ?0.65ng/ml.
Tag	Non-Tagged
Endotoxin Level	< 1 EU per 10g of protein (determined by LAL method)
Dry Ice Note	The product may be shipped with dry ice, and an additional fee may be added to your shipping cost.
Preparation and Storage	Can be stored at 2-8°C for 1 week. Aliquot and store at -20°C to -80°C. Avoid repeated freezing and thawing cycles.

IMAGES



Bioactivity

Human IL-2 (C145S) stimulates cell proliferation of the CTLL2 mouse cytotoxic T cells. The ED50 range ≥0.65 ng/ml



SDS-PAGE

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

ADDITIONAL INFORMATION

Related Product Information for IL2 active protein	IL-2, also known as T cell growth factor (TCGF), is an immunoregulatory lymphokine produced by T-cells in response to antigenic or mitogenic stimulation. IL-2/IL-2R signaling is required for T-cell proliferation and other fundamental functions which are essential for the immune response. IL-2 stimulates growth and differentiation of B-cells, NK cells, lymphokine activated killer cells, monocytes, macrophages and oligodendrocytes. This recombinant human IL-2 is a 15.4 kDa protein, containing 133 amino acid residues including one intra chain disulfide bond. Recombinant human IL-2 was overexpressed in E. coli and purified by conventional chromatography, after refolding of the isolated inclusion bodies in a renaturation buffer.
Product Categories/Family for IL2 active protein	Hormones & Cytokines
References	Morgan DA., et al. (1976). Science, 193. 1007-8. ; Watson J., et al. (1980). Immunol Rev, 51. 257-78.; Taniguchi T., et al. (1983). Nature, 302. 305-10.;

NCBI AND UNIPROT INFORMATION

NCBI GI #	28178861
NCBI GeneID	3558
NCBI Accession #	NP_000577.2
NCBI GenBank Nucleotide #	NM_000586.3
UniProt Accession #	P60568; P01585
Molecular Weight	15.4kDa (133aa), confirmed by MALDI-TOF.
NCBI Official Full Name	interleukin-2
NCBI Official Synonym Full Names	interleukin 2
NCBI Official Symbol	IL2
NCBI Official Synonym Symbols	IL-2; TCGF; lymphokine
NCBI Protein Information	interleukin-2
UniProt Protein Name	Interleukin-2
UniProt Gene Name	IL2
UniProt Synonym Gene Names	IL-2; TCGF

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/e-coli-active-protein/interleukin-2/48459>