

Interleukin 2 (IL2) Active Protein | IL2 active protein

Active Interleukin 2 (IL2)

CATALOG # AAA148221	HOST 293F cell	REACTIVITY Human	APPLICATIONS Activity Assay, Cell Culture
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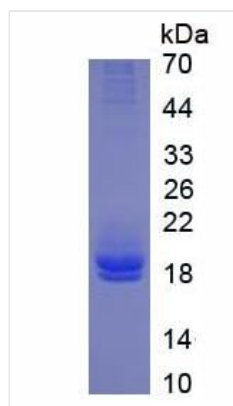
PRODUCT SYNONYMS

Interleukin 2 (IL2); Active Interleukin 2 (IL2); TCGF; Lymphokine; T-Cell Growth Factor; Aldesleukin; IL2 active protein

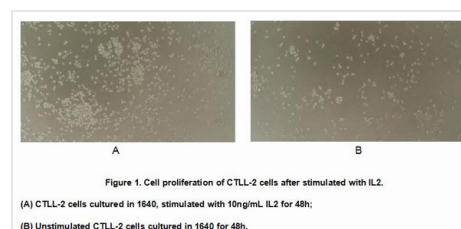
PRODUCT SPECIFICATIONS

Host	293F cell
Reactivity	Human
Purity/Purification	> 95%
Form/Format	Freeze-dried powder
Sequence Length	153
Applicable Applications for IL2 active protein	Activity Assay, Cell Culture
Tag	N-terminal His Tag
Buffer Formulation	PBS, pH7.6, containing 5% trehalose.
Fragment	Ala21~Thr153
Isoelectric Point	7.1

IMAGES



SDS-PAGE



Activity

IL2 (Interleukin-2) is a cytokine produced by T-cells in response to antigenic or mitogenic stimulation. IL2 is a type of signaling molecule in the immune system, that is required for both T-cell and B-cell proliferation and other activities crucial to regulation of the immune response. Recombinant human IL2 shares 56% AA sequence identity with mouse IL2, suggesting the exist of cross-species activity. Therefore, in order to detect the bioactivity of rhIL2, a cell proliferation assay has been conducted using CTLL-2 mouse cytotoxic T cells. Briefly, CTLL-2 cells were seeded into triplicate wells of 96-well plates at a density of 5,000 cells/well with or without the addition of various concentrations of IL2. After incubated for 48h, cells were observed by inverted microscope and cell proliferation was measured by Cell Counting Kit-8 (CCK-8). 10uL of CCK-8 solution was added to each well of the plate, the absorbance at 450nm was measured using a microplate reader after incubating the plate for 1-4 hours at 37 degree C. Proliferation of CTLL-2 cells after incubation with IL2 for 48h observed by inverted microscope was shown in Figure 1.

ADDITIONAL INFORMATION

Product Categories/Family for IL2 active protein	Cytokine; Infection immunity
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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	Predicted Molecular Weight: 17.0kDa Accurate Molecular Weight: 18kDa
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://www.aaabiotech.com/293f-human-active-protein/interleukin-2-il2/148221>