

Interleukin 2 (IL2) Active Protein | IL2 active protein

Active Interleukin 2 (IL2)

CATALOG # AAA146606	HOST 293F cell	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
Purity/Purification	> 97%
Form/Format	Freeze-dried powder
Sequence Length	169
Applicable Applications for IL2 active protein	Activity Assay, Cell Culture
Fragment	Ala21~Gln169
Tag	N-terminal His Tag
Buffer Formulation	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Organism Species	Mouse
Isoelectric Point	4.9
Usage	Reconstitute in 20mM Tris, 150mM NaCl (PH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.
Preparation and Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 degree C for one month. Aliquot and store at -80 degree C for 12 months. The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 degree C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.

IMAGES



Application Data

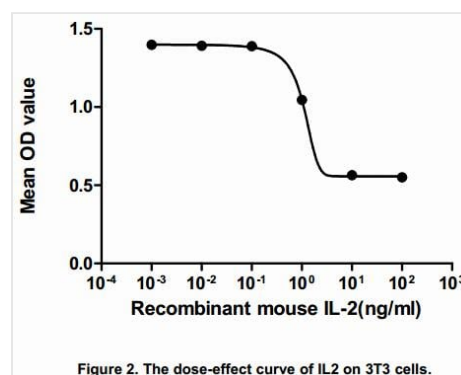
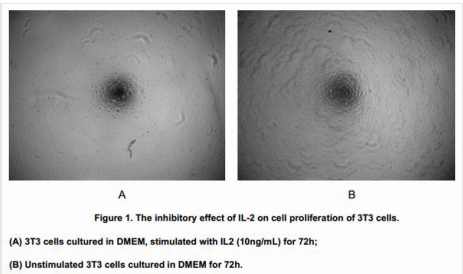
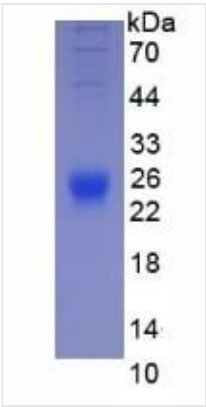


Figure 2. The dose-effect curve of IL2 on 3T3 cells.

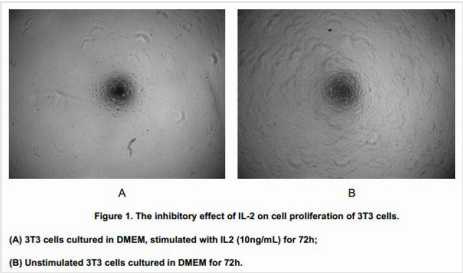
Application Data



Application Data



SDS-PAGE



Activity

Interleukin-2 (IL-2), the main lymphokine produced by activated CD4 T-helper lymphocytes, is a potent T-cell growth regulator. In addition to this activity, IL-2 was found to decrease the proliferation of 3T3 fibroblasts in time- and dose-dependent manner. Thus 3T3 cells were seeded overnight at a density of 5,000 cells/well, and treated with or without various concentrations of IL2 for 48h, then 3T3 cells were observed by inverted microscope and cell viability was measured by Cell Counting Kit-8 (CCK-8). Briefly, 10uL of CCK-8 solution was added to each well of the plate, then measure the absorbance at 450nm using a microplate reader after incubating the plate for 1-4 hours at 37oC. The inhibitory effect of IL-2 on cell proliferation of 3T3 cells observed by inverted microscope was shown in Figure 1.

ADDITIONAL INFORMATION

Product Categories/Family for IL2 active protein	Active Protein
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NCBI AND UNIPROT INFORMATION

NCBI GI #	7110653
NCBI GeneID	16183
NCBI Accession #	NP_032392.1
NCBI GenBank Nucleotide #	NM_008366.3
UniProt Accession #	P04351; P97945; Q791T3
Molecular Weight	18.9kDa; 25kDa
NCBI Official Full Name	interleukin-2
NCBI Official Synonym Full Names	interleukin 2
NCBI Official Symbol	IL2
NCBI Official Synonym Symbols	IL-2
NCBI Protein Information	interleukin-2
UniProt Protein Name	Interleukin-2

UniProt Gene Name	IL2
UniProt Synonym Gene Names	IL-2; 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/293f-cell-active-protein/interleukin-2-il2/146606>