

Interleukin 15 (IL15) Active Protein | IL15 active protein

Active Interleukin 15 (IL15)

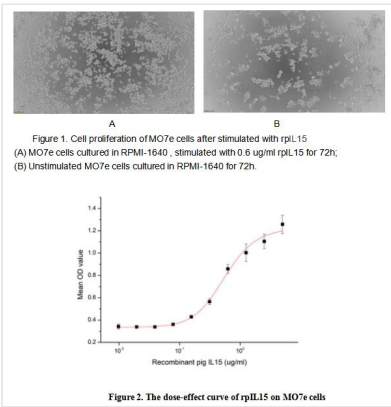
CATALOG # AAA161674	HOST E Coli	APPLICATIONS Activity Assay, Cell Culture
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PRODUCT SYNONYMS

Interleukin 15 (IL15); Active Interleukin 15 (IL15); Interleukin 154; IL15 active protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	Greater than 90% by SDS-PAGE
Form/Format	Freeze-dried powder; PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Sequence	Thr49~Ser1 62
Applicable Applications for IL15 active protein	Activity Assay, Cell Culture
Species	Pig
Expression System	Prokaryotic expression
Tag	N-terminal His Tag
Endotoxin Level	<1.0EU per 1ug (determined by the LAL method)
Isoelectric Point	4.6
Research Area	Cytokine, Infection immunity
Preparation and Storage	Store at 2-8 degree C for one month, -80 degree C for 12 months

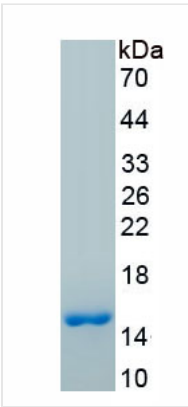


Bioactivity

Interleukin 15 (IL15) is a widely expressed cytokine that is structurally and functionally related to IL2, which plays an important role in many immunological diseases. IL15 also regulates T and natural killer (NK) cell activation and proliferation. The activity of recombinant pig IL15 was measured in a cell proliferation assay using MO7e human megakaryocytic leukemic cells. MO7e cells were seeded into triplicate wells of 96-well plates at a density of 30,000 cells/well in RPMI-1640 with the addition of various concentrations of rpiIL15. After incubated for 72h, cells were observed by inverted microscope and cell proliferation was measured by Cell Counting Kit-8 (CCK-8). Briefly, 10 ul of CCK-8 solution was added to each well of the plate, then the absorbance at 450 nm was measured using a microplate reader after incubating the plate for 1-4 hours at 37 degree C. Cell proliferation of MO7e cells after incubation with rpiIL15 for 72h observed by inverted microscope was shown in Figure 1. The dose-effect curve of rpiIL15 was shown in Figure 2. It was obvious that rpiIL15 significantly promoted cell proliferation of MO7e cells. The EC50 for this effect is typically 0.55 ug/ml.

SDS-PAGE

Figure. SDS-PAGE



ADDITIONAL INFORMATION

Product Categories/Family for IL15 active protein	Active proteins
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NCBI AND UNIPROT INFORMATION

NCBI GI #	47523834
NCBI GeneID	397683
NCBI Accession #	NP_999555.1
NCBI GenBank Nucleotide #	NM_214390.1
UniProt Accession #	Q95253; Q195F8
Molecular Weight	14kDa
NCBI Official Full Name	interleukin-15
NCBI Official Symbol	IL15
NCBI Official Synonym Symbols	IL-15
NCBI Protein Information	interleukin-15
UniProt Protein Name	Interleukin-15
UniProt Gene Name	IL15
UniProt Synonym Gene Names	IL-15
UniProt Entry Name	IL15_PIG

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-15-il15/161674>