

Interleukin 5 (IL5) Active Protein | IL5 active protein

Active Interleukin 5 (IL5)

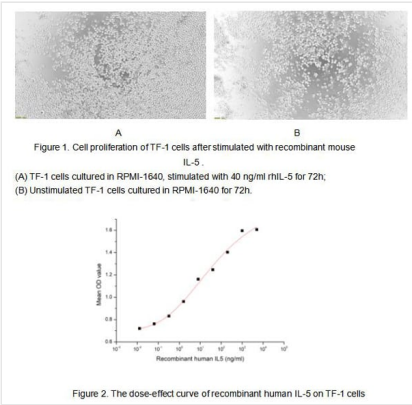
CATALOG # AAA161678	HOST 293F cell	APPLICATIONS Activity Assay, Cell Culture
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PRODUCT SYNONYMS

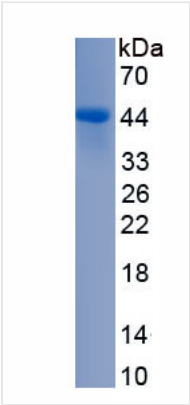
Interleukin 5 (IL5); Active Interleukin 5 (IL5); Interleukin 5; IL5 active protein (eukaryotic; 293F cell); Human; E-CSF; ESGF; EDF; TRF; Colony-Stimulating Factor; Eosinophil; T-Cell replacing Factor; B Cell Differentiation Factor I; Eosinophil Differentiation Factor4; IL5 active protein

PRODUCT SPECIFICATIONS

Host	293F cell
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	Ile20~Ser1 34
Applicable Applications for IL5 active protein	Activity Assay, Cell Culture
Species	Human
Expression System	Eukaryotic expression
Tag	N-terminal His Tag and C-terminal Fc Region of Human IgG1
Endotoxin Level	<1.0EU per 1ug (determined by the LAL method)
Isoelectric Point	7.5
Research Area	Cytokine, Infection immunity
Preparation and Storage	Store at 2-8 degree C for one month, -80 degree C for 12 months



SDS-PAGE
Figure. SDS-PAGE



Bioactivity

Interleukin-5 (IL-5), a secreted glycoprotein, is a member of the hematopoietic family. Interleukin 5 has been shown to stimulate the proliferation of TF-1 cells. To test this effect, TF-1 cells were seeded into triplicate wells of 96-well plates at a density of 2×10^4 cells/well and incubated for 72h in the presence or absence of various concentrations of recombinant human IL-5 at 37 degree C. The growth of cells were observed by inverted microscope and cell proliferation was measured by Cell Counting Kit-8 (CCK-8). Briefly, 10 μ l of CCK-8 solution was added to each well of the plate, then measure the absorbance at 450 nm using a microplate reader after incubating the plate for 1-4 hours at 37 degree C. Cell proliferation of TF-1 cells after incubation with IL-5 for 72h observed by inverted microscope was shown in Figure 1. The dose-effect curve of recombinant human IL-5 was shown in Figure 2. It was obvious that it significantly promoted cell proliferation of TF-1 cells. The ED50 for this effect is typically 35 ng/ml.

ADDITIONAL INFORMATION

Product Categories/Family for IL5 active protein	Active proteins
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NCBI AND UNIPROT INFORMATION

NCBI GI #	4504671
NCBI GeneID	3567
NCBI Accession #	NP_000870.1
NCBI GenBank Nucleotide #	NM_000879.2
UniProt Accession #	P05113; Q13840
Molecular Weight	15,238 Da
NCBI Official Full Name	interleukin-5
NCBI Official Synonym Full Names	interleukin 5
NCBI Official Symbol	IL5
NCBI Official Synonym Symbols	EDF; TRF; IL-5
NCBI Protein Information	interleukin-5; B-cell differentiation factor I; T-cell replacing factor; colony-stimulating factor, eosinophil; eosinophil differentiation factor
UniProt Protein Name	Interleukin-5
UniProt Gene Name	IL5
UniProt Synonym Gene Names	IL-5; TRF
UniProt Entry Name	IL5_HUMAN

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.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/293f-cell-active-protein/interleukin-5-il5/161678>