

Interleukin 18 (IL18) Active Protein | IL18 active protein

Active Interleukin 18 (IL18)

CATALOG # AAA148130	REACTIVITY Mouse	APPLICATIONS Activity Assay, Cell Culture
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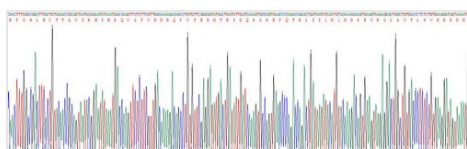
PRODUCT SYNONYMS

Interleukin 18 (IL18); Active Interleukin 18 (IL18); IGIF; IL-1g; IL1F4; IL1-F4; Interferon-Gamma-Inducing Factor; Interleukin-1 Family Member 4; Ibctadekin; Interleukin-1 Gamma; IL18 active protein

PRODUCT SPECIFICATIONS

Reactivity	Mouse
Purity/Purification	> 90%
Form/Format	Freeze-dried powder
Sequence Length	192
Applicable Applications for IL18 active protein	Activity Assay, Cell Culture
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.
Fragment	Asn36~Ser192
Isoelectric Point	5

IMAGES



Application Data

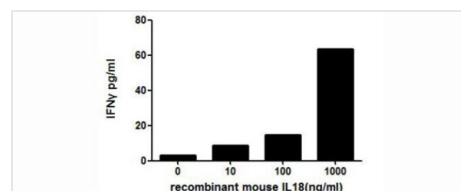
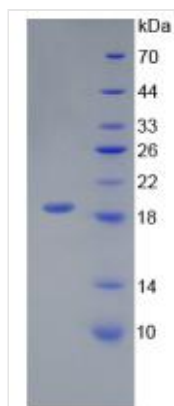


Figure 1. IFNγ concentration in the cell supernatant of murine spleen cells up-regulated by IL18

Application Data



SDS-PAGE

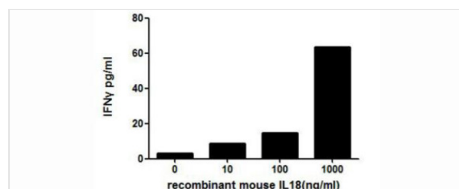


Figure 1. IFN γ concentration in the cell supernatant of murine spleen cells up-regulated by IL18

Activity

IL18 (interleukin 18) is a cytokine that shares similarities in structure with IL1, and is produced by macrophages and other cells. IL18 has been reported to stimulate T cells proliferation and NK cell activity, besides, murine IL18 has been found to enhance the production of INF γ in spleen cells in vitro. Thus, a stimulation assay was conducted to detect the activity of IL18 using murine spleen cells. Briefly, murine spleen cells were seeded into wells of 6-well plates at a density of 2×10^6 cells/mL in RPMI-1640 with the addition of various concentrations of IL18. After incubation for 48 hours, the concentration of INF γ in the cell supernatant was detected using an ELISA kit. INF γ levels in the cell supernatant of spleen cells increased significantly after stimulated with IL18, the data was shown in Figure 1.

ADDITIONAL INFORMATION

Product Categories/Family for IL18 active protein	Cytokine; Infection immunity
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NCBI AND UNIPROT INFORMATION

NCBI GI #	6680413
NCBI GeneID	16173
NCBI Accession #	NP_032386.1
NCBI GenBank Nucleotide #	NM_008360.2
UniProt Accession #	P70380
Molecular Weight	Predicted Molecular Weight: 19.4kDa Accurate Molecular Weight: 19kDa
NCBI Official Full Name	interleukin-18 isoform a
NCBI Official Synonym Full Names	interleukin 18
NCBI Official Symbol	IL18
NCBI Official Synonym Symbols	Ig1f; IL-18
NCBI Protein Information	interleukin-18
UniProt Protein Name	Interleukin-18
UniProt Gene Name	IL18
UniProt Synonym Gene Names	Ig1f; IL-18; IFN-gamma-inducing factor; IL-1 gamma

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/mouse-active-protein/interleukin-18-il18/148130>