

Interleukin-18 Active Protein | IL-18 active protein

Human Interleukin-18 Recombinant

CATALOG #	HOST
AAA14421	E Coli (Host protein expression may be lot-specific and can be subject to change during production, including bulk orders)

PRODUCT SYNONYMS

Interleukin-18; Human Interleukin-18 Recombinant; IGIF; IL1F4; IL18; IL-18; IL-18 active protein

PRODUCT SPECIFICATIONS

Host	E Coli (Host protein expression may be lot-specific and can be subject to change during production, including bulk orders)
Purity/Purification	>92%, as determined by SDS-PAGE and HPLC
Form/Format	Recombinant Interleukin-18 was lyophilized from 0.2 um filtered PBS solution pH 7.4.
Sequence Length	189
Source Note	Optimized DNA sequence encoding Human Interleukin-18 mature chain was expressed in Escherichia Coli
Presentation	Recombinant Interleukin-18 was lyophilized from 0.2 um filtered PBS solution pH 7.4.
Biological Activity	The ED(50) was determined by the dose-dependent proliferation of human PBMC co-stimulated with IL-12 cells was found to be in the range of 5ng/ml.
Reconstitution	A quick spin of the vial followed by reconstitution in distilled water to a concentration not less than 0.1 mg/mL. This solution can then be diluted into other buffers.
Endotoxin	Endotoxin content was assayed using a LAL gel clot method. Endotoxin level was found to be less than 0.1 ng/μg(1EU/μg).
Molecular Weight Note	Native human Interleukin-18, generated by the proteolytic removal of the signal peptide and propeptide, the molecule has a calculated molecular mass of approximately 18 kDa. Recombinant Interleukin-18 is a disulfide-linked monomer protein consisting of 158 amino acid residue subunits, migrates as an approximately 18 kDa protein under non-reducing and reducing conditions in SDS-PAGE.
Preparation and Storage	The lyophilized protein is stable for at least 1 year from date of receipt at -20°C. Upon reconstitution, this cytokine can be stored in working aliquots at 2°-8°C for one month, or at -20° C for six months, with a carrier protein without detectable loss of activity. Avoid repeated freeze/thaw cycles.

ADDITIONAL INFORMATION

Product Categories/Family for IL-18 active protein	Cytokines
References	• IL-18 binding protein-expressing mesenchymal stem cells improve myocardial protection after ischemia or infarction .<i>PNAS</i>, Sep 2009; 10.1073/pnas.0908924106. • IL-18 and urinary ngal predict dialysis and graft recovery after kidney transplantation .<i>J. Am. Soc. Nephrol.</i>, Sep 2009; 10.1681/ASN.2009030264. • a functional polymorphism in IL-18 is associated with severity of bronchial asthma .<i>Am. J. Respir. Crit. Care Med.</i>, Sep 2009; 10.1164/rccm.200905-0652 degree C. • il-12p40 and IL-18 play pivotal roles in orchestrating the cell-mediated immune response to a poxvirus infection .<i>J. Immunol.</i>, Sep 2009; 183: 3324 - 3331. • neutrophil chemokines and their role in IL-18-mediated increase in neutrophil α2– production and intestinal edema following alcohol intoxication and burn injury .<i>Am J Physiol Gastrointest Liver Physiol</i>, Aug 2009; 297: G340 - G347.

NCBI AND UNIPROT INFORMATION

NCBI GI #	342349321
NCBI GeneID	3606
NCBI Accession #	NP_001230140.1
NCBI GenBank Nucleotide #	NM_001243211.1
UniProt Accession #	Q14116; O75599; Q6FGY3; Q6WWJ7; Q96KJ8; Q9NQ49
NCBI Official Full Name	interleukin-18 isoform 2 proprotein
UniProt Protein Name	Interleukin-18
UniProt Gene Name	IL18
UniProt Synonym Gene Names	IGIF; IL1F4; IL-18; IFN-gamma-inducing factor; IL-1 gamma
UniProt Entry Name	IL18_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.

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Online datasheet: <https://www.aaabiotech.com/e-coli-il-18-active-protein/interleukin-18/14421>