

Recombinant Human IL18BP Protein, Fc Chimera tagged

Cat. No. IL18BP-1656H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human IL18BP (Interleukin 18 Binding Protein, isoform A) Fc Chimera protein, comprising the IL-18 BP α domain (Thr29-Gly192) fused to human IgG1 Fc (Pro100-Lys330) via an IEGRMD linker. Expressed in NS0 cells. Functions as an IL-18 antagonist by binding IL-18 and blocking its biological activity.
Species	Human
Source	NS0
ProteinLength	Thr29-Gly192 (IL18BP, 164 aa) + IEGRMD linker + Pro100-Lys330 (IgG1 Fc, 231 aa)
Description	Interleukin 18 binding protein (IL-18 BP) is a secreted glycoprotein which functions as an IL-18 antagonist by binding to IL-18 and blocking its biological activity. The protein functions as an inhibitor of the proinflammatory cytokine IL18. It binds IL18, prevents the binding of IL18 to its receptor, and thus inhibits IL18-induced IFN-gamma production, resulting in reduced Th1 immune response. This protein is constitutively expressed and secreted in mononuclear cells. Elevated levels are detected in intestinal tissues of Crohn's disease patients.
Form	Lyophilized
Bio-activity	Inhibits Recombinant Human IL-18/IL-1F4 induced IFN-gamma secretion in KG-1 human acute myelogenous leukemia cells. ED50: 0.02-0.12 ug/mL in the presence of 40 ng/mL rhIL-18.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Molecular Mass	Predicted: 44.2 kDa (monomer); Observed: 60-80 kDa (reducing conditions, SDS-PAGE). Exists as disulfide-linked homodimer.
AASequence	TPVSQTTTAATASVRSTKDPCPSQPPVFPAAKQCPALEVTWPEVEVPLNGTSLSLSC VACSRFPNFSILYWLGNFSFIEHLPGRWEGSTSRERGSTGTQLCKALVLEQLTPAL HSTNFSVCLVDPEQVVQRHVLAQLWAGLRATLPPTQEALPSSHSSPQQIEGRMDP KSCDKTHTCPPCPAPELLGGPSVFLFPPKPKDTLMISRTPEVTCVVVDVSHEDPEVK FNWYVDGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALP APIEKTISKAKGQPREPQVYTLPPSRDELTKNQVSLTCLVKGFYPSDIAVEWESNGQ PENNYKTTTPVLDSGGSFFLYSKLTVDKSRWQQGNVFSVMHEALHNHYTQKSL SLSPGK
Endotoxin	<0.10 EU/ug (LAL method)
Purity	>95%, determined by SDS-PAGE visualized with Silver Staining and quantitative densitometry by Coomassie Blue Staining
Applications	Bioactivity
Storage	Lyophilized: -20C to -70C for 12 months from date of receipt. Reconstituted (sterile): 2-8C for 1 month; -20C to -70C for 3 months. Avoid repeated freeze-thaw cycles.
Concentration	Reconstitute at 100 ug/mL in sterile PBS
Reconstitution	Reconstitute at 100 ug/mL in sterile PBS.
Storage Buffer	Lyophilized from 0.2 um filtered solution in PBS (Carrier Free, no BSA)

GENE INFORMATION

Gene Name IL18BP

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Official Symbol	IL18BP
Synonyms	IL-18BP; IL18BPα; MC51L-53L-54L; Tadekinig-alfa
Gene ID	10068
mRNA Refseq	NM_001039659.2
Protein Refseq	NP_001034748.1
MIM	604113
UniProt ID	O95998
SDS-PAGE analysis of IL18BP-1656H	2 ug/lane, reducing conditions, Silver Staining and Coomassie Blue Staining

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