

IL-18BP Protein, Human (CHO)

Cat. No.:	HY-P7211
Synonyms:	rHuIL-18BP; Tadekinig-alfa; IL18BP
Species:	Human
Source:	CHO
Accession:	O95998-2 (T31-G194)
Gene ID:	10068
Molecular Weight:	42-44 kDa

PROPERTIES

AA Sequence	<p> T P V S Q T T T A A T A S V R S T K D P C P S Q P P V F P A A K Q C P A L E V T W P E V E V P L N G T L S L S C V A C S R F P N F S I L Y W L G N G S F I E H L P G R L W E G S T S R E R G S T G T Q L C K A L V L E Q L T P A L H S T N F S C V L V D P E Q V V Q R H V V L A Q L W A G L R A T L P P T Q E A L P S S H S S P Q Q Q G </p>
Biological Activity	The ED ₅₀ is <30 ng/mL as measured by KG-1 cells.
Appearance	Lyophilized powder.
Formulation	Lyophilized after extensive dialysis against PBS.
Endotoxin Level	<0.2 EU/μg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years from date of receipt. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	<p>IL18BP (Interleukin-18 Binding Protein) is an early signal in the development of T-lymphocyte helper type 1 (Th1) responses [1]. IL18BP shares many characteristics with soluble cytokine receptors of the IL1 family in that the protein exhibits specificity for IL18, belongs to the immunoglobulin-like class of receptors and has limited amino acid sequences with those of the IL1 receptor type II. IL18BP suppresses the production of IFNγ resulting in reduced T-helper type 1 immune responses. Two human IL18BP isoforms exhibit the greatest affinity for IL18 with a rapid on-rate, a slow off-rate and a dissociation</p>
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constant (kDa) of 399 pM. The two other isoforms with an incomplete immunoglobulin domain are unable to neutralise IL18 [2].

REFERENCES

- [1]. Novick D, et al. Interleukin-18 binding protein: a novel modulator of the Th1 cytokine response. *Immunity*. 1999 Jan;10(1):127-36.
- [2]. C. Dinarello, et al. Targeting interleukin 18 with interleukin 18 binding protein. *Ann Rheum Dis*. 2000 Nov; 59(Suppl 1): i17-i20.
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Caution: Product has not been fully validated for medical applications. For research use only.

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