

For Research Use Only

Recombinant Human IL-18BP protein (hFc Tag)(HPLC verified)



Catalog Number: Eg0489

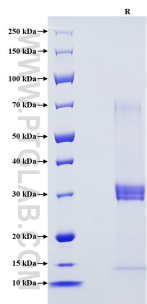
Basic Information	Species: Human	Purity: >90 %, SDS-PAGE >90 %, SEC-HPLC	Tag: hFc Tag
Technical Specifications	Purity: >90 %, SDS-PAGE >90 %, SEC-HPLC Endotoxin Level: <0.1 EU/µg protein, LAL method Source: HEK293-derived Human IL-18BP protein Thr31-Gly194 (Accession# O95998-2) with a human IgG1 Fc tag at the C-terminus. GeneID: 10068 Accession: O95998-2 Predicted Molecular Mass: 43.6 kDa SDS-PAGE: kDa, reducing (R) conditions Formulation: Lyophilized from 0.22 µm filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.		
Biological Activity	Not tested		
Storage and Shipping	Storage: It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles. • Until expiry date, -20°C to -80°C as lyophilized proteins. • 3 months, -20°C to -80°C under sterile conditions after reconstitution. Shipping: The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.		
Reconstitution	Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.		
Background	IL-18 binding protein (IL-18BP) is a natural regulatory molecule of the proinflammatory cytokine IL-18. IL-18BP gene is expressed in numerous types of tissues and cells of humans and animals and its expression is regulated by interferon gamma (IFN-gamma). It's a glycoprotein belonging to the immune globulin superfamily. IL-18BP can effectively inhibit action of IL-18 in vivo and in vitro and is considered as a natural antagonist of IL-18. The imbalance of IL-18/IL-18BP has been noticed in some inflammatory diseases, including rheumatoid arthritis (RA), psoriasis, asthma, lupus erythematosus, multiple sclerosis, atherosclerosis, inflammatory bowel disease (IBD), Crohn's disease (CD) and so on.		
References	1.Wang F.(2024). Biomed Rep. 9;20(6):87. 2.Muhl H, et al.(2000). Biochem Biophys Res Commun. 267:960–963. 3.Mazodier K, et al.(2005). Blood. 106:3483–3489. 4.Mochol M, et al.(2020). 80:221–225. 5.Park SY, et al.(2022). 10(7):1750.		
Synonyms	IL18BP, IL 18BP, IL18BPα, interleukin 18 binding protein, Interleukin-18-binding protein		

For technical support and original validation data for this product please contact

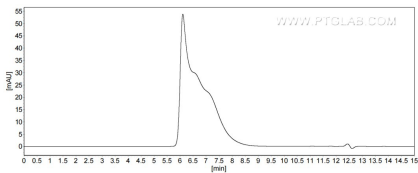
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Selected Validation Data



Purity of Recombinant Human IL-18BP was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) conditions and stained using Coomassie blue.



The purity of Human IL-18BP was greater than 90% as determined by SEC-HPLC.