

IL-18R beta/IL-18RAP Protein, Human, Recombinant (hFc)

General Information

Synonyms:	IL-1R-7;IL-1R7;interleukin 18 receptor accessory protein;IL-18RAcP;CD218b;CDw218b;IL-18R- β ;IL18RB;IL-18R β /IL-18RAP;IL-18Rbeta;ACPL;IL-18R β ;IL-1RAcPL;IL-18R-beta
Protein Construction:	Phe20-Arg356
Species:	Human
Expression Host:	HEK293 Cells
Accession:	O95256-1
Molecular Weight:	65.3 kDa (Predicted); 70-80 kDa (Due to glycosylation)

QC Testing

Biological Activity:	Immobilized Human IL-18RAP, hFc Tag at 0.5 μ g/ml (100 μ l/well) on the plate. Dose response curve for Biotinylated Anti-IL-18RAP Antibody, hFc Tag with the EC50 of 18.2 ng/ml determined by ELISA.
Purity:	> 95% as determined by Tris-Bis PAGE; > 95% as determined by HPLC
Endotoxin:	< 1.0 EU/ μ g of the protein as determined by the LAL method.
Formulation:	Lyophilized from 0.22 μ m filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 μ g/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

lactoferrin (LTF), peptidoglycan recognition protein 1 and IL-18 receptor accessory protein (IL18RAP) remained significantly elevated in peripheral monocytes of hypertensive individuals in a separate validation cohort. Interestingly, IL18RAP expression associated with MAP in a cohort of African Americans..

Reference

Zhernakova A, et al.. (2008) Genetic analysis of innate immunity in Crohn's disease and ulcerative colitis identifies two susceptibility loci harboring CARD9 and IL18RAP. *Am J Hum Genet.* 82(5): 1202-10.

Grisoni ML, et al.. (2009) Lack of association between polymorphisms of the IL18R1 and IL18RAP genes and cardiovascular risk: the MORGAM Project. *BMC Med Genet.* 10: 44.

Koskinen LL, et al.. (2009) Association study of the IL18RAP locus in three European populations with coeliac disease. *Hum Mol Genet.* 18(6): 1148-55.

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