

Recombinant human IL-18R alpha/IL18R1 protein

Catalog Number: ATGP3821

PRODUCT INFORMATION

Expression system

Baculovirus

Domain

19-329aa

UniProt No.

Q13478

NCBI Accession No.

NP_003846

Alternative Names

Interleukin-18 receptor 1, CD218 antigen-like family member A, CDw218a, IL1 receptor-related protein, IL-1Rrp, IL1R-rp, Interleukin-18 receptor alpha, IL-18R-alpha, IL-18Ralpha, CD218a, IL1RRP, IL-1Rrp

PRODUCT SPECIFICATION

Molecular Weight

62.7 kDa (550aa)

Concentration

0.5mg/ml (determined by absorbance at 280nm)

Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

Purity

> 90% by SDS-PAGE

Endotoxin level

< 0.1 EU per 1ug of protein (determined by LAL method)

Tag

hIgG-His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

IL18R1, also known as interleukin 18 receptor 1, is an interleukin receptor of the immunoglobulin superfamily. This protein contain three Ig-like C2-type (immunoglobulin-like) domains and on TIR domain. It shares numerous immuno-regulatory functions with IL12. IFN-alpha and IL12 are reported to induce the expression of this receptor

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in NK and T cells. Also, this receptor specifically binds interleukin 18 (IL18), and is essential for IL18 mediated signal transduction. It binds to the agonist leads to the activation of NF-kappa-B, but does not bind IL1A or IL1B beta. Recombinant human IL18R1, fused to hlgG-His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

Amino acid Sequence

AESCTSRPHI TVVEGEPFYL KHCSCSLAHE IETTTKSWYK SSGSQEHVEL NPRSSSRIAL HDCVLEFWPV ELNDTGSYFF QMKNYTQKWK LNVIRRNKHS CFTERQVTSK IVEVKKFFQI TCENSYYQTL VNSTSLYKNC KKLLLENNKN PTIKKNAEFE DQGYYS CVHF LHHNGKLFNI TKTFNITIVE DRSNIVPVLL GPKLNHVAVE LGKNVRLNCS ALLNEEDVIY WMFGEENGSD PNIHEEKEMR IMTPEGKWAH SKVLRIENIG ESNLNLVLYNC TVASTGGTDT KSFILVRKAD MADIPGHVFT RVEPKSCDKT HTCPCPAPE LLGGPSVFLF PPKPKDTLMI SRTPEVTCVV VDVSHEDPEV KFNWYVDGVE VHNATKPRE EQYNSTYRVV SVLTVLHQDW LNGKEYKCKV SNKALPAPIE KTISKAKGQP REPQVYTLPP SRDELTKNQV SLTCLVKGFY PSDIAVEWES NGQPENNYKT TPPVLDSGDS FFLYSKLTVD KSRWQQGNVF SCSVMHEALH NHYTQKSLSL SPGKHHHHHH

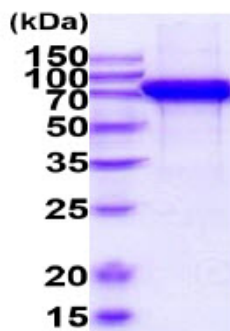
General References

Torigoe K., et al, (1997) J. Biol. Chem. 272:25737-25742.

Hoshino K., et al, (1999) J. Immunol. 162:5041-5044.

DATA

SDS-PAGE



15% SDS-PAGE (3ug)

3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.