Recombinant human IL-12R beta/IL12RB1 protein

Catalog Number: ATGP3082

PRODUCT INFORMATION

Expression system
Baculovirus

Domain
24-545aa

UniProt No.
P42701

NCBI Accession No.
NP_005526.1

Alternative Names
Interleukin 12 receptor subunit beta 1, IL-12 receptor subunit beta-1, IL-12R subunit beta-1, IL-12R-beta-1, IL-12 receptor beta component, IL12R, IL12RB, CD212

PRODUCT SPECIFICATION

Molecular Weight
58.4 kDa (528aa)

Concentration
0.25mg/ml (determined by Bradford assay)

Formulation
Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 30% glycerol, 1mM EDTA, 0.1mM PMSF.

Purity
> 85% by SDS-PAGE

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

Tag
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
IL12RB1, also known as Interleukin-12 receptor subunit beta-1, is a intercellular adhesion molecule 1. This protein binds to interleukine 12 (IL12) with a low affinity, and is thought to be a part of IL12 receptor complex. It forms a disulfide-linked oligomer, which is required for its IL12 binding activity. The coexpression of this protein

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and IL12RB2 was shown to lead to the formation of high-affinity IL12 binding sites and reconstitution of IL12 dependent signaling. Recombinant human IL12RB1, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

Amino acid Sequence

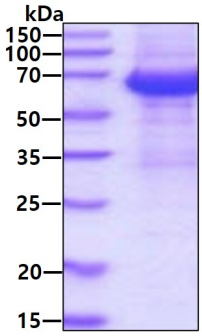
CRTSECCFQD PPYPDADSGS ASGPRDLRCY RISSDRYECS WQYEGPTAGV SHFLRCCLSS GRCCYFAAGS ATRLQFSDQA GVSVLYTVTL WVESWARNQT EKSPEVTLQL YNSVKYEPPL GDIKVSKLAG QLRMEWETPD NQVGAEVQFR HRTPSSPWKL GDCGPQDDDT ESCLCPLEMN VAQEFQLRRR QLGSQGSSWS KWSSPVCVPP ENPPQPQVRF SVEQLGQDGR RRLTLKEQPT QLELPEGCQG LAPGTEVTYR LQLHMLSCPC KAKATRTLHL GKMPYLSGAA YNVAVISSNQ FGPGLNQTWH IPADTHTEPV ALNISVGTNG TTMYWPARAQ SMTYCIEWQP VGQDGGLATC SLTAPQDPDP AGMATYSWSR ESGAMGQEKC YYITIFASAH PEKLTLWSTV LSTYHFGGNA SAAGTPHHVS VKNHSLDSVS VDWAPSLLST CPGVLKEYVV RCRDEDSKQV SEHPVQPTET QVTLSGLRAG VAYTVQVRAD TAWLRGVWSQ PQRFSIEVQV SD<HHHHHH>

General References

van de Vosse E. et al. (2003) Immunogenetics. 54(12):817-29.

DATA

SDS-PAGE



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