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Recombinant human IL-1R beta/IL1R2 protein

Catalog Number: ATGP3733

PRODUCT INFORMATION

Expression system
Baculovirus

Domain
14-343aa

UniProt No.
P27930

NCBI Accession No.
NP_004624.1

Alternative Names
Interleukin-1 receptor type 2, CD121 antigen-like family member B, CDw121b, IL-1 type II receptor, Interleukin-1 receptor beta, IL-1R-beta, Interleukin-1 receptor type II, CD121b, IL1RB

PRODUCT SPECIFICATION

Molecular Weight
38.8 kDa (338aa)

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

Biological Activity
Measured by its ability to inhibit proliferation using D10.G4.1 mouse helper T cells. The ED50 range ≤400ng/ml with Human IL-1 beta/IL-1F2.

Tag
His-Tag

Application
SDS-PAGE, Bioactivity

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.

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BACKGROUND

Description

IL1R2, also known as interleukin-1 receptor type 2 isoform 1, is a cytokine receptor that belongs to the interleukin-1 receptor family. This protein is expressed predominantly by, T cells, fibroblasts and endothelial cells. It binds interleukin-1 alpha (IL1A), interleukin-1beta (IL1B), and interleukin 1 receptor antagonist (IL1RN), preventing them from binding to their regular receptors and thereby inhibiting the transduction of their signaling. Also, Interleukin-4 (IL4) is reported to antagonize the activity of interleukin-1 by inducing the expression and release of this cytokine. Recombinant human IL1R2, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

Amino acid Sequence

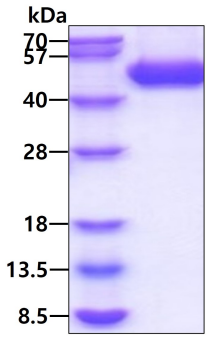
FTLQPAAHTG AARSCRFRGR HYKREFRLEG EPVALRCPQV PYWLWASVSP RINLTWHKND SARTVPGEEE TRMWAQDGAL WLLPALQEDS GTYVCTTRNA SYCDKMSIEL RVFENTDAFL PFISYPQILT LSTSGVLVCP DLSEFTRDKT DVKIQWYKDS LLLDKDNEKF LSVRGTTHLL VHDVALEDAG YYRCVLTFAH EGQQYNITRS IELRIKKKKE ETIPVIISPL KTISASLGSR LTIPCKVFLG TGTPLTTMLW WTANDTHIES AYPGGRVTEG PRQEYSENNE NYIEVPLIFD PVTREDLHMD FKCVVHNTLS FQTLRTTVKE <LEHHHHHH>

General References

Greenfeder SA., et al, (1995) J Biol Chem 270:13757-13765.
Granowitz EV., et al, (1991) J. Biol. Chem. 266:14147-14150.

DATA

SDS-PAGE



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

Biological Activity

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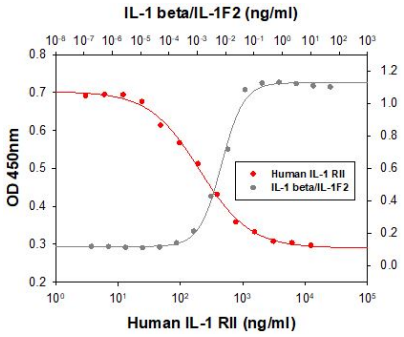

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