Bioactive

IL1R2 (Human) Recombinant Protein

Catalog # P8241 Size 5 ug

Specification

Product Description	Human IL1R2 (P27930, 14 a.a. - 343 a.a.) partial recombinant protein with His tag at C-terminus expressed in Sf9 cells.
Sequence	FTLQPAAHTGAARSCRFRGRHYKREFRLEGEPVALRCPQVPYWLWASVSPRINLTWHKNDSARTVPGEEETRMWAQDGALWLLPALQEDSGTYVCTTRNASYCDKMSIELRVFENTDAFLPFISYPQILTLSTSGVLVCPDLSEFTRDKTDVKIQWYKDSLLLDKDNEKFLSVRGTTHLL_x005F_x005F_x005F_x000D__x005F_x000D__x000D_ VHDVALEDAGYYRCVLTFAHEGQQYNITRSIELRIKKKKEETIPVIISPLKTISASLGSRLTIPCKVFLGTGTPLTTMLWWTANDTHIESAYPGGRVTEGPRQEYSENNENYIEVPLIFDPVTREDLHMDFKCVVHNTLSFQTLRTTVKELEHHHHHH
Host	insect
Theoretical MW (kDa)	38.8
Form	Liquid
Preparation Method	Sf9 cell expression system
Purity	> 90% by SDS-PAGE
Activity	The ED_{50} is < 400 ng/mL with IL-1beta, measured by the ability to inhibit proliferation using D10.G4.1 mouse helper T cells.
Recommend Usage	Biological Activity SDS-PAGE The optimal working dilution should be determined by the end user.
Storage Buffer	In PBS pH 7.4 (10% glycerol)
Storage Instruction	Store at 2°C to 8°C for 1 week. For long term storage, aliquot and store at -20°C to -80°C. Aliquot to avoid repeated freezing and thawing.

Applications

- Functional Study

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- SDS-PAGE

Gene Info — IL1R2

Entrez GeneID	7850
Protein Accession#	P27930
Gene Name	IL1R2
Gene Alias	CD121b, IL1RB, MGC47725
Gene Description	interleukin 1 receptor, type II
Omim ID	147811
Gene Ontology	Hyperlink
Gene Summary	The protein encoded by this gene is a cytokine receptor that belongs to the interleukin 1 receptor family. This protein binds interleukin alpha (IL1A), interleukin beta (IL1B), and interleukin 1 receptor, type I(IL1R1/IL1RA), and acts as a decoy receptor that inhibits the activity of its ligands. Interleukin 4 (IL4) is reported to antagonize the activity of interleukin 1 by inducing the expression and release of this cytokine. This gene and three other genes form a cytokine receptor gene cluster on chromosome 2q12. Two alternatively spliced transcript variants encoding the same protein have been reported. [provided by RefSeq
Other Designations	antigen CDw121b|type II interleukin-1 receptor, beta

Pathway

- Cytokine-cytokine receptor interaction
- Hematopoietic cell lineage
- MAPK signaling pathway

Disease

- Alveolar Bone Loss
- Alzheimer disease
- Asthma

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- Atherosclerosis
- Bronchiolitis
- Calcinosis
- Cardiovascular Diseases
- Chorioamnionitis
- Connective Tissue Diseases
- Coronary Artery Disease
- Dengue
- Diabetes Mellitus
- Ductus Arteriosus
- Edema
- Fetal Diseases
- Fetal Membranes
- Genetic Predisposition to Disease
- Hematologic Diseases
- Hodgkin Disease
- Infant
- Infection
- Inflammation
- Intervertebral Disk Displacement
- Lymphoproliferative Disorders
- Multiple Myeloma
- Musculoskeletal Diseases
- Obstetric Labor
- Occupational Diseases
- Osteoarthritis

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- Periodontal Attachment Loss
- Periodontal Diseases
- Periodontitis
- Pre-Eclampsia
- Pregnancy Complications
- Premature Birth
- Respiratory Syncytial Virus Infections
- Skin Diseases
- Spondylitis
- Venous Thrombosis
- Waldenstrom Macroglobulinemia
- Werner syndrome

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