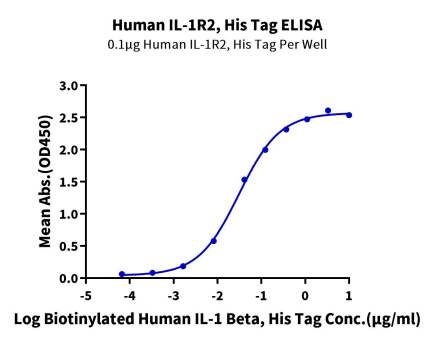
Bioactive CellTx™ HuPro®

IL1R2 (Human) Recombinant Protein

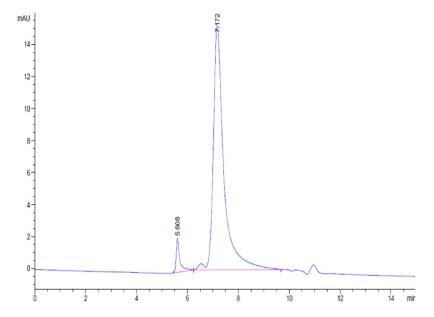
Catalog # P10232 Size 100 ug

Applications



Enzyme-linked Immunoabsorbent Assay

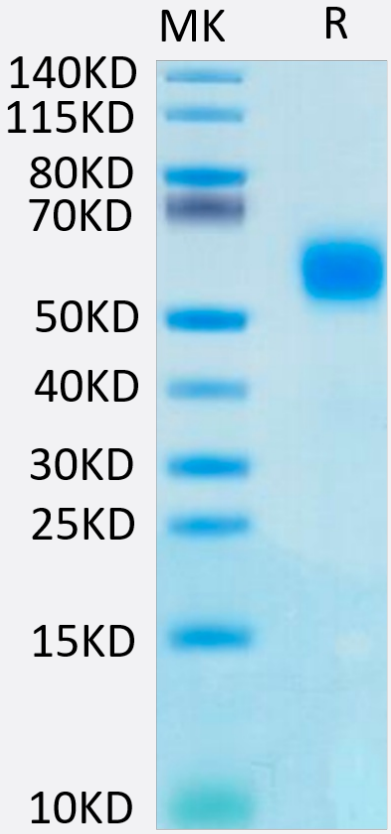
Immobilized Human IL-1R2, His Tag at 1 ug/ml (100 ul/Well) on the plate. Dose response curve for Biotinylated Human IL-1 Beta, His Tag with the EC_{50} of 30.9 ng/ml determined by ELISA.



SEC-HPLC

The purity of Human IL-1R2 is greater than 90% as determined by SEC-HPLC.

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Tris-Bis PAGE

Human IL-1R2 on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

Specification

Product Description	Human IL1R2 (NP_004624.1, Phe14-Glu343) partial recombinant protein with His tag at C-terminus expressed in HEK293 cells.
Sequence	Phe14-Glu343
Host	Human
Theoretical MW (kDa)	38.9
Form	Lyophilized
Preparation Method	Mammalian cell (HEK293) expression system
Purity	> 95% as determined by Tris-Bis PAGE;> 95% as determined by HPLC
Endotoxin Level	< 1 EU per 1 ug of protein (determined by LAL method)
Quality Control Testing	SEC-HPLC SEC-HPLC The purity of Human IL-1R2 is greater than 90% as determined by SEC-HPLC. Tris-Bis PAGE Human IL-1R2 on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

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Recommend Usage	Biological Activity ELISA SEC-HPLC Tris-Bis PAGE The optimal working dilution should be determined by the end user.
Storage Buffer	Lyophilized from filtered solution in PBS, pH 7.4 (5% trehalose).
Storage Instruction	After reconstitution with deionized water to a final concentration more than 100 ug/ml, store at 4°C for 1 week. For long term storage, store at -80°C for 1 year. Aliquot to avoid repeated freezing and thawing.

Applications

- Functional Study
- Enzyme-linked Immunoabsorbent Assay

  Immobilized Human IL-1R2, His Tag at 1 ug/ml (100 ul/Well) on the plate. Dose response curve for Biotinylated Human IL-1 Beta, His Tag with the EC_{50} of 30.9 ng/ml determined by ELISA.

Gene Info — IL1R2

Entrez GeneID	7850
Protein Accession#	NP_004624.1
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

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Pathway

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

Disease

- Alveolar Bone Loss
- Alzheimer disease
- Asthma
- 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

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- Infant
- Infection
- Inflammation
- Intervertebral Disk Displacement
- Lymphoproliferative Disorders
- Multiple Myeloma
- Musculoskeletal Diseases
- Obstetric Labor
- Occupational Diseases
- Osteoarthritis
- 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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