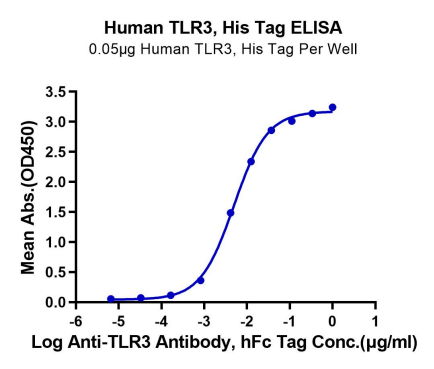
Bioactive HuPro®

TLR3 (Human) Recombinant Protein

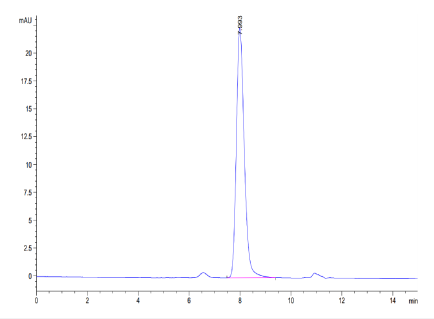
Catalog # P10022 Size 100 ug

Applications



Enzyme-linked Immunoabsorbent Assay

Immobilized Human TLR3, His Tag at 0.5 ug/ml (100 ul/Well) on the plate. Dose response curve for Anti-TLR3 Antibody, hFc Tag with the EC_{50} of 4.9 ng/ml determined by ELISA.



SEC-HPLC

The purity of Human TLR3 is greater than 95% as determined by SEC-HPLC.

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Tris-Bis PAGE

Human TLR3 on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

Specification

Product Description	Human TLR3 (Q6PCD4, Ser23-Glu703) partial recombinant protein with His tag at C-terminus expressed in HEK293 cells.
Sequence	Ser23-Glu703
Host	Human
Theoretical MW (kDa)	78.7
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 TLR3 is greater than 95% as determined by SEC-HPLC. Tris-Bis PAGE Human TLR3 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 TLR3, His Tag at 0.5 ug/ml (100 ul/Well) on the plate. Dose response curve for Anti-TLR3 Antibody, hFc Tag with the EC_{50} of 4.9 ng/ml determined by ELISA.

Gene Info — TLR3

Entrez GeneID	7098
Protein Accession#	Q6PCD4
Gene Name	TLR3
Gene Alias	CD283
Gene Description	toll-like receptor 3
Omim ID	603029
Gene Ontology	Hyperlink

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Gene Summary	The protein encoded by this gene is a member of the Toll-like receptor (TLR) family which plays a fundamental role in pathogen recognition and activation of innate immunity. TLRs are highly conserved from Drosophila to humans and share structural and functional similarities. They recognize pathogen-associated molecular patterns (PAMPs) that are expressed on infectious agents, and mediate the production of cytokines necessary for the development of effective immunity. The various TLRs exhibit different patterns of expression. This receptor is most abundantly expressed in placenta and pancreas, and is restricted to the dendritic subpopulation of the leukocytes. It recognizes dsRNA associated with viral infection, and induces the activation of NF-kappaB and the production of type I interferons. It may thus play a role in host defense against viruses. Use of alternative polyadenylation sites to generate different length transcripts has been noted for this gene. [provided by RefSeq
Other Designations	-

Pathway

- Toll-like receptor signaling pathway

Disease

- Arthritis
- Aspergillosis
- Asthma
- Birth Weight
- Breast Neoplasms
- Bronchiolitis
- Bronchiolitis Obliterans
- Cardiomyopathy
- Cardiovascular Diseases
- Chorioamnionitis
- Choroidal Neovascularization
- Chronic Disease
- Connective Tissue Diseases
- Coxsackievirus Infections

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- Diabetes Mellitus
- Disease Progression
- Epidermal Necrolysis
- Eye Diseases
- Fetal Diseases
- Fetal Membranes
- Genetic Predisposition to Disease
- Geographic Atrophy
- Glioblastoma
- Glioma
- Hepatitis C
- HIV Infections
- Hodgkin Disease
- Hypersensitivity
- Infant
- Infection
- Inflammation
- Kidney Failure
- Leukemia
- Macular Degeneration
- Meningeal Neoplasms
- Meningioma
- Multiple Sclerosis
- Musculoskeletal Diseases
- Myocarditis

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- Nasopharyngeal Neoplasms
- Obstetric Labor
- Pre-Eclampsia
- Pregnancy Complications
- Premature Birth
- Prostate cancer
- Prostatic Neoplasms
- Respiratory Syncytial Virus Infections
- Skin Diseases
- Stevens-Johnson Syndrome
- Subacute Sclerosing Panencephalitis
- Virus Diseases

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