

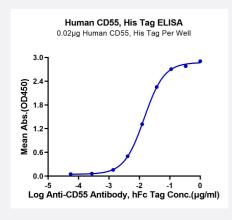
Bioactive

HuPro®

CD55 (Human) Recombinant Protein

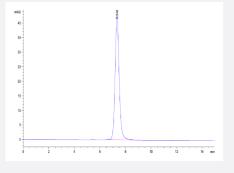
Catalog # P9800 Size 100 ug

Applications



Enzyme-linked Immunoabsorbent Assay

Immobilized Human CD55, His Tag at 0.2 ug/mL (100 uL/well) on the plate. Dose response curve for Anti-CD55 Antibody, hFc Tag with the EC50 of 14.3ng/mL determined by ELISA.



SEC-HPLC

The purity of Human CD55 is greater than 95% as determined by SEC-HPLC.



Tris-Bis PAGE

Human CD55 on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

Specification



Product Information

Product Description	Human CD55 (P08174-1, Asp35-Ser353) partial recombinant protein with His tag at C-terminus expressed in HEK293 cells.
Sequence	Asp35-Ser353
Host	Human
Theoretical MW (kDa)	35.8
Form	Lyophilized
Preparation Method	Mammalian cell (HEK293) expression system
Purity	> 95% as determined by Tris-Bis PAGE; > 90% as determined by HPLC
Endotoxin Level	< 1 EU per 1 ug of protein (determined by LAL method)
Activity	The EC ₅₀ was 14.3 ng/mL, messured by ELISA at 0.2 ug/mL.
Quality Control Testing	SEC-HPLC and Tris-Bis PAGE SEC-HPLC The purity of Human CD55 is greater than 95% as determined by SEC-HPLC. Tris-Bis PAGE Human CD55 on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.
Recommend Usage	Biological Activity ELISA SDS-PAGE The optimal working dilution should be determined by the end user.
Storage Buffer	Lyophilized from sterile distilled Water is > 100 ug/mL
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.
Note	Result of bioactivity analysis

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- Functional Study
- SDS-PAGE



Product Information

Gene Info — CD55	
Entrez GenelD	<u>1604</u>
Protein Accession#	<u>P08174-1</u>
Gene Name	CD55
Gene Alias	CR, CROM, DAF, TC
Gene Description	CD55 molecule, decay accelerating factor for complement (Cromer blood group)
Omim ID	<u>125240</u>
Gene Ontology	<u>Hyperlink</u>
Gene Summary	This gene encodes a protein involved in the regulation of the complement cascade. The encoded glycoprotein is also known as the decay-accelerating factor (DAF); binding of DAF to complemen t proteins accelerates their decay, disrupting the cascade and preventing damage to host cells. A ntigens present on the DAF glycoprotein constitute the Cromer blood group system (CROM). Two alternatively spliced transcripts encoding different proteins have been identified. The predominant transcript encodes a membrane-bound protein expressed on cells exposed to plasma component proteins but an alternatively spliced transcript produces a soluble protein present at much lower le vels. Additional, alternatively spliced transcript variants have been described, but their biological v alidity has not been determined. [provided by RefSeq
Other Designations	CD55 antigen decay accelerating factor for complement

Pathway

- Complement and coagulation cascades
- Hematopoietic cell lineage

Disease

- Asthma
- Birth Weight
- Chorioamnionitis
- Down Syndrome
- Fetal Membranes



- Genetic Predisposition to Disease
- Glioblastoma
- Glioma
- Leukemia
- Lymphoma
- Macular Degeneration
- Meningeal Neoplasms
- Meningioma
- Obstetric Labor
- Pre-Eclampsia
- Premature Birth
- Rhinitis