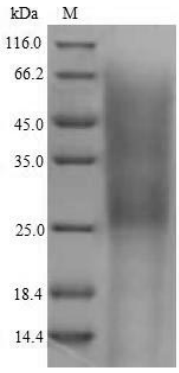
Recombinant Mouse Complement receptor type 2 (Cr2), partial

Product Code	CSB-YP005934MO
Relevance	Receptor for complement C3d. Participates in B lymphocytes activation.
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	P19070
Alias	Complement C3d receptor CD_antigen: CD21
Product Type	Recombinant Protein
Immunogen Species	Mus musculus (Mouse)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	LYGNEVSYECDEGFYLLGEKSLQCVNDSKGHGSWSGPPPQCLQSSPLTHCP DPEVKHGYKLNKTHSAFSHNDIVHFVCNQGFIMNGSHLIRCHTNNTWLPGVPT CIRKASLGCQSPSTIPNGNHTGGSIARFPPGMSVMYSCYQGFLMAGEARLICT HEGTWSQPPPFCKEVNCSFPEDTNGIQKGFQPGKTYRFGATVTLECEDGYTL EGSPQSQCQDDSQWNPPLALCKYRRW
Lead Time	Delivery time may differ from different purchasing way or location, please kindly consult your local distributors for specific delivery time.
Research Area	Immunology
Source	Yeast
Gene Names	Cr2
Protein Names	Recommended name: Complement receptor type 2 Short name= Cr2 Alternative name(s): Complement C3d receptor CD_antigen= CD21
Expression Region	729-963aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 6xHis-tagged
Mol. Weight	28.0kDa
Protein Description	Partial
Image	



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

Description

The first step of making this recombinant Mouse Cr2 protein is synthesizing the Cr2 gene, the synthesized gene is then cloned into an expression vector which is a cDNA plasmid that includes a promoter sequence and an antibiotic-resistant gene. It also has N-terminal 6xHis tag encoding a fusion tag for downstream protein purification or identification. The antibiotic-resistant gene enables the selection of cells carrying the plasmid in antibiotic-based media and then transfects cells with a DNA vector that contains the template and then culturing the cells so that they transcribe and translate the desired protein. The recombinant Cr2 protein is purified by ion-exchange chromatography or affinity purification. And the purity is 90%+ by SDS-PAGE.

CR2 is a protein coding gene that encodes complement receptor type 2. According to some studies, CR2 may have the following features.
CR2 binds directly to CD19 and becomes a ligand-binding subunit of a B-cell pre-existing signal transduction complex, which may be a representative of a family of membrane protein complexes. Binding of complement receptor type 2 (CR2) to the Epstein-Barr virus glycoprotein gp350 is critical for viral attachment to B lymphocytes. Regardless of the specificity of the B cell receptor, CR2 may have a role in antigen presentation by B cells. The octapeptide is part of a structural determinant critical for both viral and natural ligand binding to CR2.

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL.We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.