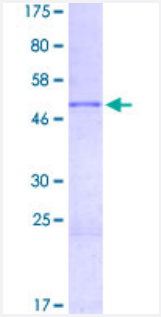
C2 (Human) Recombinant Protein (Q01)

Catalog # H00000717-Q01 Size 25 ug, 10 ug

Applications



Specification

Product Description	Human C2 partial ORF (NP_000054.2, 21 a.a. - 243 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	APSCPQNVNISGGTFTLSHGWAPGSLLTYSCPQGLYPSPASRLCKSSGQWQTPGATRSLSKAVCKPVRCPAPVSFENGIYTPRLGSYPVGGNVSFECEDGFILRGSPVRQCRPNGMWDGETAVCDNGAGHCPNPGISLGAVRTGFRFGHGDKVRYRCSSNLVLTGSSERECQGNGVWSGTEPICRQPYSYDFPEDVAPALGTSFSHMLGATNPTQKTKESLGR
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	50.16
Preparation Method	*in vitro* wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — C2

Entrez GeneID	717
GeneBank Accession#	NM_000063.3
Protein Accession#	NP_000054.2
Gene Name	C2
Gene Alias	CO2, DKFZp779M0311
Gene Description	complement component 2
Omim ID	217000 603075
Gene Ontology	Hyperlink
Gene Summary	Component C2 is a serum glycoprotein that functions as part of the classical pathway of the complement system. Activated C1 cleaves C2 into C2a and C2b. The serine proteinase C2a then combines with complement factor 4b to create the C3 or C5 convertase. Deficiency of C2 has been reported to associated with certain autoimmune diseases and SNPs in this gene have been associated with altered susceptibility to age-related macular degeneration. This gene localizes within the class III region of the MHC on the short arm of chromosome 6. Alternative splicing results in multiple transcript variants encoding distinct isoforms. Additional transcript variants have been described in publications but their full-length sequence has not been determined
Other Designations	C3/C5 convertase|OTTHUMP00000029277|OTTHUMP00000062690|complement C2|complement component C2

Pathway

- Complement and coagulation cascades
- Systemic lupus erythematosus

Disease

- Atherosclerosis
- Autoimmune Diseases
- Birth Weight
- Calcinosis
- Cardiovascular Diseases
- Choroid Diseases
- Choroidal Neovascularization
- Coronary Aneurysm
- Coronary Artery Disease
- Coronary Disease
- Cross Infection
- Diabetes Mellitus
- Disease Models
- Disease Progression
- Diseases in Twins
- Edema
- Genetic Predisposition to Disease
- Geographic Atrophy
- Glioblastoma
- Glioma
- HIV Infections
- Inflammatory Bowel Diseases

- Leukemia
- Lupus Erythematosus
- Lymphoma
- Macular Degeneration
- Meningeal Neoplasms
- Meningioma
- Mucocutaneous Lymph Node Syndrome
- Peripheral Vascular Diseases
- Pneumonia
- Prostate cancer
- Prostatic Neoplasms
- Retinal Diseases
- Retinal Drusen
- Vision
- Wet Macular Degeneration
- Wounds and Injuries