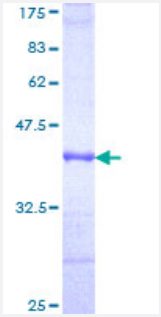
IF (Human) Recombinant Protein (Q01)

Catalog # H00003426-Q01 Size 25 ug, 10 ug

Applications



Specification

Product Description	Human IF partial ORF (NP_000195, 19 a.a. - 118 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	KVTYTSQEDLVEKKCLAKKYTHLSCDKVFCQPWQRCIEGTCVCKLPYQCPKNGTAVCATNRRSFPTYCQQKSLECLHPGTKFLNNGTCTAEGKFSVSLKH
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	36.74
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 — CFI

Entrez GeneID	3426
GeneBank Accession#	NM_000204
Protein Accession#	NP_000195
Gene Name	CFI
Gene Alias	C3B-INA, FI, IF, KAF
Gene Description	complement factor I
Omim ID	217030
Gene Ontology	Hyperlink
Gene Summary	This gene encodes a serine proteinase that is essential for regulating the complement cascade. The encoded preproprotein is cleaved to produce both heavy and light chains, which are linked by disulfide bonds to form a heterodimeric glycoprotein. This heterodimer can cleave and inactivate the complement components C4b and C3b, and it prevents the assembly of the C3 and C5 convertase enzymes. Defects in this gene cause complement factor I deficiency, an autosomal recessive disease associated with a susceptibility to pyogenic infections. Mutations in this gene have been associated with a predisposition to atypical hemolytic uraemic syndrome, a disease characterized by acute renal failure, microangiopathic hemolytic anemia and thrombocytopenia. Primary glomerulonephritis with immmune deposits is another condition associated with mutation of this gene. [provided by RefSeq
Other Designations	C3B/C4B inactivator|C3b-inactivator|I factor (complement)|Konglutinogen-activating factor|complement component I|complement control protein factor I|light chain of factor I

Pathway

- Complement and coagulation cascades

Disease

- Alcoholism
- Genetic Predisposition to Disease
- Hemolytic-Uremic Syndrome
- Macular Degeneration
- Recurrence
- Tobacco Use Disorder