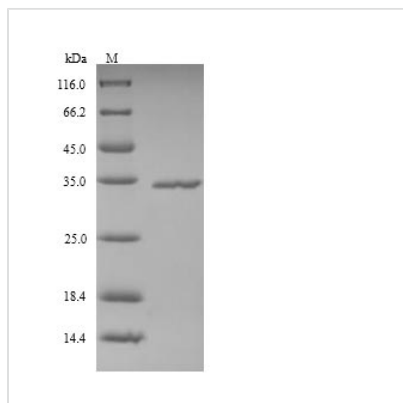


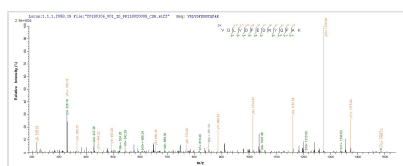


Recombinant Human Ficolin-2 (FCN2)

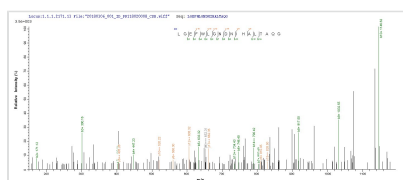
Product Code	CSB-YP620881HU
Relevance	May function in innate immunity through activation of the lectin complement pathway. Calcium-dependent and GlcNAc-binding lectin. Enhances phagocytosis of S.typhimurium by neutrophils, suggesting an opsonic effect via the collagen region.
Abbreviation	Recombinant Human FCN2 protein
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.	Q15485
Alias	37 kDa elastin-binding protein Collagen/fibrinogen domain-containing protein 2 EBP-37 Ficolin-B Ficolin-beta Hucolin L-ficolin Serum lectin p35
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	LQAADTCPEVKMVGLEGSDKLTILRGCPGLPGAPGPKGEAGTNGKRGERGPP GPPGKAGPPGPNAGPEPQPCLTGPRCTCKDLLDRGHFLSGWHTIYLPDCRPL TVLCDMDTDGGGWTVFQRRVDGSVDFYRDWATYKQGFGSRLGEFWLGNDN IHALTAQGTSELRVDLVDFEDNYQFAKYRSFKVADEAEKYNLVLGAFVEGSAG DSLTFHNNQSFSTKDQDNDLNTGNCAVMFQGAWWYKNCHVSNLNGRYLRG THGSFANGINWKSGKGYNSYKVSEMVRPA
Research Area	Cardiovascular
Source	Yeast
Target Names	FCN2
Protein Names	Recommended name: Ficolin-2 Alternative name(s): 37 kDa elastin-binding protein Collagen/fibrinogen domain-containing protein 2 EBP-37 Ficolin-B Ficolin-beta Hucolin L-ficolin Serum lectin p35
Expression Region	26-313aa
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	33.4kDa
Protein Length	Full Length of Mature Protein
Image	



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



Based on the SEQUEST from database of Yeast host and target protein, the LC-MS/MS Analysis result of CSB-YP620881HU could indicate that this peptide derived from Yeast-expressed Homo sapiens (Human) FCN2.



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Description

The expression region of this recombinant Human FCN2 covers amino acids 26-313. The expected molecular weight for the FCN2 protein is calculated to be 33.4 kDa. Expression of this FCN2 protein is conducted in yeast. The FCN2 gene fragment has been modified by fusing the N-terminal 6xHis tag, providing convenience in detecting and purifying the recombinant FCN2 protein during the following stages.

Human Ficolin-2 (FCN2) is a soluble pattern recognition receptor that plays a crucial role in the innate immune system. Upon binding to microbial surfaces, FCN2 activates the lectin pathway of the complement system. It initiates the cascade leading to the formation of the membrane attack complex, promoting opsonization and lysis of pathogens. FCN2 is involved in the defense against a variety of pathogens, including bacteria, viruses, and fungi. Its role in complement activation contributes to the clearance of pathogens and modulates the immune response. Variations in the FCN2 gene have been associated with susceptibility or resistance to certain infections and autoimmune diseases, highlighting the importance of FCN2 in immune regulation. Research on FCN2 may have implications for the development of therapies targeting infectious diseases and immune-related disorders.

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.



Shelf Life

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.