Recombinant FCN2 protein (His tag)

Catalog Number	542719
Synonyms	37 kDa elastin-binding protein; Collagen/fibrinogen domain-containing protein 2; EBP-37; Ficolin-B; Ficolin-beta; Hucolin; L-ficolin; Serum lectin p35
Species	Human
Expression System	E. coli
Accession	Q15485
Molecular Weight	Predictes a molecular mass of 29.74 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 30 kDa band.

Product Information

Sequence Region	59-313
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>86%, by SDS-PAGE with Coomassie Brilliant Blue staining.
Endotoxin	Not tested.
Activity	Not tested.
Stability	Samples are stable for up to twelve months from date of receipt at -70℃
Protein Construction	DNA encoding 59-313 aa (Q15485) were fused with 6His tag.

Storage & Handling

Reconstitution	Reconstitute at 0.25 μg/μl in sterile water for short-term storage. Reconstitution with 50% glycerol solution is recommended for longer term storage (see Stability and Storage for more details). If a different concentration is needed for your purposes please adjust the reconstitution volume as required (please note: the ion concentration of the final solution will vary according to the volume used). Note: Centrifuge vial before opening. When reconstituting, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution.
Storage	Store it under sterile conditions at -20℃ to -80℃. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Shipping	In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise.

Description

Description	Recombinant Human Ficolin-2 Fragment (aa 59-313) is a high-purity protein designed for studying innate immunity and lectin complement pathway activation. This 255-amino acid fragment fully encompasses the fibrinogen C-terminal domain, making it an ideal tool for domain-specific functional assays and immunological research. Ficolin-2, also known as L-ficolin or serum lectin p35, functions in innate immunity through calcium-dependent activation of the lectin complement pathway. This GlcNAc-binding lectin enhances phagocytosis of pathogens such as Salmonella typhimurium by neutrophils, demonstrating opsonic activity mediated through its collagen region. As a secreted protein, Ficolin-2 circulates in serum and plays a crucial role in pattern recognition and immune defense mechanisms against microbial invaders.