Recombinant FCN3 protein (His tag)

Catalog Number	541867
Synonyms	Collagen/fibrinogen domain-containing lectin 3 p35; Collagen/fibrinogen domain-containing protein 3; Hakata antigen
Species	Human
Expression System	E. coli
Accession	O75636
Molecular Weight	Predictes a molecular mass of 29.32 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 29 kDa band.

Product Information

Sequence Region	50-299
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>90%, 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 50-299 aa (O75636) 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-3 Fragment (amino acids 50-299) is a high-purity protein designed for studying innate immunity mechanisms. This 250-amino acid fragment fully encompasses the functional Fibrinogen C-terminal domain, making it an ideal tool for investigating lectin complement pathway activation and carbohydrate-binding interactions in immunological research. Ficolin-3 (FCN3) is a key component of the innate immune system that functions through activation of the lectin complement pathway. This calcium-dependent lectin demonstrates specific binding affinity for N-acetylglucosamine (GlcNAc), N-acetylgalactosamine (GalNAc), D-fucose, and lipopolysaccharides from Salmonella species. As a secreted protein, Ficolin-3 is naturally found in blood plasma, bronchial and alveolar surfaces, and bile ducts, where it plays a crucial role in pathogen recognition and immune defense. The full-length protein's ability to recognize microbial surface patterns makes it an important mediator of host defense against bacterial infections.