Recombinant SCRB2 protein (His tag)

Catalog Number	542662
Synonyms	85 kDa lysosomal membrane sialoglycoprotein; LGP85; CD36 antigen-like 2; Lysosome membrane protein II; LIMP II; Scavenger receptor class B member 2; CD antigen CD36
Species	Human
Expression System	E. coli
Accession	Q14108
Molecular Weight	Predictes a molecular mass of 48.15 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 50 kDa band.

Product Information

Sequence Region	28-433
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>88%, 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 28-433 aa (Q14108) 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 SCARB2/LIMP II Protein Fragment (28-433) is a high-quality, stable, and soluble 406-amino acid fragment of Lysosome membrane protein 2 (LGP85), designed for structural and biochemical studies. This fragment enables researchers to investigate the protein's role in lysosomal targeting and viral entry mechanisms with enhanced experimental utility. The full-length SCARB2 protein, also known as LIMP II or CD36 antigen-like 2, is a multi-pass membrane protein localized to the lysosome membrane. It functions as a lysosomal receptor for glucosylceramidase (GBA1), facilitating its targeting to lysosomes, which is critical for cellular lipid metabolism. Additionally, SCARB2 serves as a receptor for enterovirus 71, highlighting its significance in viral pathogenesis and host-pathogen interactions. This protein's dual roles in lysosomal function and microbial infection make it a key target for research in neurodegenerative diseases, virology, and intracellular trafficking pathways.