Recombinant MSRE protein (His tag)

Catalog Number	537616
Synonyms	Macrophage acetylated LDL receptor I and II; Scavenger receptor class A member 1; CD antigen CD204
Species	Human
Expression System	E. coli
Accession	P21757
Molecular Weight	Predictes a molecular mass of 12.93 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 13 kDa band.

Product Information

Sequence Region	349-451
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>89%, 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 349-451 aa (P21757) 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 MSR1 (Macrophage Scavenger Receptor Types I and II) Fragment (349-451) - a high-purity protein fragment encompassing the SRCR domain, ideal for investigating scavenger receptor function in cholesterol metabolism and atherosclerosis research. The full-length Macrophage Scavenger Receptor Types I and II (MSR1/CD204) are membrane glycoproteins that play a critical role in the pathological deposition of cholesterol in arterial walls during atherogenesis. As single-pass type II membrane proteins, these receptors mediate the endocytosis of diverse macromolecules, including modified low density lipoproteins (LDL), contributing to foam cell formation and atherosclerotic plaque development. The receptor exists in multiple isoforms with distinct functional properties, where isoforms I and II internalize acetylated LDL while isoform III lacks this capability. This protein's involvement in scavenger receptor pathways makes it significant for studying cardiovascular diseases and lipid metabolism disorders.