Recombinant S27A3 protein (His tag)

Catalog Number	545137
Synonyms	FATP-3; Fatty acid transport protein 3; Arachidonate--CoA ligase; Long-chain-fatty-acid--CoA ligase; Solute carrier family 27 member 3; Very long-chain acyl-CoA synthetase homolog 3; VLCS-3
Species	Human
Expression System	E. coli
Accession	Q5K4L6
Molecular Weight	Predictes a molecular mass of 11.57 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 12 kDa band.

Product Information

Sequence Region	24-113
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>85%, 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 24-113 aa (Q5K4L6) 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 Long-chain fatty acid transport protein 3 (FATP-3) Fragment (24-113) is a highly purified, stable protein fragment designed for structural and biochemical studies. This 90-amino acid fragment retains key solubility characteristics, making it ideal for investigating fatty acid transport and metabolism mechanisms in vitro. Long-chain fatty acid transport protein 3 (FATP-3), encoded by the SLC27A3 gene, primarily functions as an acyl-CoA ligase that catalyzes ATP-dependent formation of fatty acyl-CoA using long-chain fatty acids (LCFA) and very-long-chain fatty acids (VLCFA) as substrates. The protein plays a crucial role in regulating cellular levels of long-chain fatty acids by facilitating their transport across membranes. Located in the mitochondrial membrane as a single-pass membrane protein, FATP-3 is essential for fatty acid metabolism and energy homeostasis, with implications for understanding metabolic disorders and lipid-related cellular processes.