Recombinant ACBD5 protein (His tag)

Catalog Number	545160
Species	Human
Expression System	E. coli
Accession	Q5T8D3
Molecular Weight	Predictes a molecular mass of 11.98 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 12 kDa band.

Product Information

Sequence Region	39-127
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 39-127 aa (Q5T8D3) 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 Acyl-CoA-binding domain-containing protein 5 (ACBD5) fragment (residues 39-127) is a high-purity, stable protein designed for structural and biochemical studies. This 89-amino acid fragment retains key solubility properties, making it ideal for investigating ACBD5's role in peroxisome function and pexophagy. The full-length Acyl-CoA-binding domain-containing protein 5 (ACBD5) is a peroxisomal membrane protein that functions as an acyl-CoA binding protein, specifically interacting with medium- and long-chain acyl-CoA esters. ACBD5 serves as the peroxisome receptor for pexophagy, a selective autophagy pathway targeting peroxisomes, though it is not required for aggrephagy or nonselective autophagy. Located in the peroxisome membrane as a single-pass membrane protein, ACBD5 plays a critical role in peroxisomal metabolism and quality control mechanisms.