Recombinant ACYP2 protein (His tag)

Catalog Number	548926
Synonyms	Acylphosphatase, muscle type isozyme; Acylphosphate phosphohydrolase 2
Species	Human
Expression System	E. coli
Accession	P14621
Molecular Weight	Predictes a molecular mass of 12.66 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 13 kDa band.

Product Information

Sequence Region	2-99
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>87%, 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 2-99 aa (P14621) 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 Acylphosphatase-2 (ACYP2) Fragment (residues 2-99) is a high-purity protein preparation encompassing the complete Acylphosphatase-like functional domain. This carefully engineered fragment serves as an essential research tool for investigating the specific catalytic functions and biochemical properties of this intriguing enzyme family. Acylphosphatase-2 (EC 3.6.1.7), encoded by the ACYP2 gene, is a muscle-type isozyme belonging to the acylphosphatase enzyme family that catalyzes the hydrolysis of acylphosphates. While the precise physiological role of Acylphosphatase-2 remains to be fully elucidated, acylphosphatases are known to participate in various metabolic pathways by cleaving carboxyl-phosphate bonds in substrates such as acylphosphates and carbamoylphosphate. The absence of specific subcellular localization data suggests this enzyme may function in multiple cellular compartments, highlighting the importance of studying its domain-specific activities to better understand its biological significance.