Recombinant LMBD2 protein (His tag)

Catalog Number	549518
Synonyms	LMBR1 domain-containing protein 2
Species	Human
Expression System	E. coli
Accession	Q68DH5
Molecular Weight	Predictes a molecular mass of 23.63 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 25 kDa band.

Product Information

Sequence Region	208-387
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 208-387 aa (Q68DH5) 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	Introducing the recombinant protein fragment of G-protein coupled receptor-associated protein LMBRD2 (LMBR1 domain-containing protein 2), spanning residues 208-387. This 180-amino acid fragment is engineered for stability and solubility, ideal for investigating its role in modulating G-protein coupled receptor signaling pathways in structural and biochemical studies. The full-length LMBRD2 protein, encoded by the gene LMBRD2 in Homo sapiens, is recruited to ligand-activated beta-2 adrenergic receptor (ADRB2) and negatively regulates the adrenergic receptor signaling pathway, as supported by experimental evidence (PubMed:28388415). It may also regulate other G-protein coupled receptors, such as the type-1 angiotensin II receptor (AGTR1), though this is probable and requires further validation. LMBRD2 is localized to the cell membrane and is classified as a multi-pass membrane protein, highlighting its integral role in membrane-associated receptor modulation and cellular signaling processes.