Recombinant EP15R protein (His tag)

Catalog Number	543799
Synonyms	Eps15-related protein; Eps15R
Species	Human
Expression System	E. coli
Accession	Q9UBC2
Molecular Weight	Predictes a molecular mass of 24.33 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 25 kDa band.

Product Information

Sequence Region	2-209
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 2-209 aa (Q9UBC2) 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 EPS15L1 Fragment (2-209) is a high-purity protein designed for studying the EH and EF-hand domains of Epidermal Growth Factor Receptor Substrate 15-like 1 (Eps15R). This fragment is ideal for investigating clathrin-mediated endocytosis mechanisms and receptor internalization processes in cellular models. Epidermal Growth Factor Receptor Substrate 15-like 1 is a constitutive component of clathrin-coated pits essential for receptor-mediated endocytosis. The full-length protein facilitates the internalization of key receptors including integrin beta-1 (ITGB1) and transferrin receptor (TFR), with ITGB1 endocytosis requiring DAB2 association. EPS15L1 localizes primarily to plasma membrane coated pits and exhibits peripheral membrane protein characteristics, with additional nuclear presence. Its function in endocytic pathways makes it crucial for understanding cellular uptake mechanisms and membrane trafficking dynamics.