Recombinant ES8L2 protein (His tag)

Catalog Number	548253
Synonyms	EPS8-like protein 2; Epidermal growth factor receptor pathway substrate 8-related protein 2; EPS8-related protein 2
Species	Human
Expression System	E. coli
Accession	Q9H6S3
Molecular Weight	Predictes a molecular mass of 23.82 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 24 kDa band.

Product Information

Sequence Region	244-439
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>86%, 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 244-439 aa (Q9H6S3) 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 EPS8L2 Protein Fragment (244-439) is a high-quality, stable, and soluble protein product derived from the Epidermal Growth Factor Receptor Kinase Substrate 8-Like Protein 2. This fragment is ideal for structural studies, biochemical assays, and functional investigations related to actin cytoskeleton remodeling and guanine nucleotide exchange. The full-length EPS8L2 protein, encoded by the EPS8L2 gene in Homo sapiens, stimulates the guanine exchange activity of SOS1 and is implicated in membrane ruffling and actin cytoskeleton remodeling. It localizes to the cytoplasm and, in the cochlea, is essential for maintaining stereocilia in adult hair cells, highlighting its role in cellular structure and auditory function. This recombinant fragment represents a stable, soluble unit optimized for experimental applications, supporting research into its molecular mechanisms without the complexities of the full-length protein.