Recombinant L2GL2 protein (His tag)

Catalog Number	540523
Synonyms	HGL; Lethal(2) giant larvae protein homolog 2
Species	Human
Expression System	E. coli
Accession	Q6P1M3
Molecular Weight	Predictes a molecular mass of 27.32 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 27 kDa band.

Product Information

Sequence Region	709-937
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>85%, 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 709-937 aa (Q6P1M3) 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 LLGL2 (709-937) is a high-quality protein fragment derived from human LLGL scribble cell polarity complex component 2. This fragment is engineered for stability and solubility, making it ideal for structural biology and biochemical studies focused on cell polarity and spindle organization mechanisms. The full-length LLGL2 protein is a critical component of the LLGL scribble cell polarity complex, working in concert with GPSM2/LGN, PRKCI/aPKC, and PARD6B/Par-6. This complex ensures proper organization and orientation of bipolar spindles during cell division and plays a key role in establishing epithelial cell polarity. LLGL2 localizes to the cytoplasm, with specific enrichment in perinuclear structures and cell-cell contact sites during interphase, and transitions to the cell periphery during metaphase. In polarized epithelial cells, it is found in lateral regions, underscoring its importance in maintaining cellular architecture and division fidelity.