Recombinant LRC49 protein (His tag)

Catalog Number	548761
Synonyms	Centriolar satellite-associated tubulin polyglutamylase complex regulator 2; Tubulin polyglutamylase complex subunit 4; PGs4
Species	Human
Expression System	E. coli
Accession	Q8IUZ0
Molecular Weight	Predictes a molecular mass of 34.41 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 35 kDa band.

Product Information

Sequence Region	77-357
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 77-357 aa (Q8IUZ0) 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 human Leucine-rich repeat-containing protein 49 (LRRC49) fragment (amino acids 77-357), a high-purity protein designed for studying the LRRCT domain's role in tubulin polyglutamylase complex regulation. This fragment serves as an essential tool for investigating cilia and flagella biogenesis and motility mechanisms. The full-length Leucine-rich repeat-containing protein 49 (LRRC49) functions as a subunit of the tubulin polyglutamylase complex (TPGC), which is critical for mediating polyglutamylation of cilia and flagella—a process vital for their proper formation and movement. Located in the cytoplasm and associated with microtubules, particularly at the centrosome and centriolar satellites, LRRC49 plays a key role in cytoskeletal organization. The provided fragment encompasses the LRRCT domain, enabling focused research on domain-specific functions within this regulatory pathway.