Recombinant CIB3 protein (His tag)

Catalog Number	545747
Synonyms	Kinase-interacting protein 3; KIP 3
Species	Human
Expression System	E. coli
Accession	Q96Q77
Molecular Weight	Predictes a molecular mass of 23.46 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 26 kDa band.

Product Information

Sequence Region	1-187
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 1-187 aa (Q96Q77) 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 CIB3 (Calcium and integrin-binding family member 3) Fragment (1-187) - A high-purity protein fragment encompassing the complete EF-hand domains 1, 2, and 3, designed for functional studies of mechanoelectrical transduction channel regulation in sensory hair cells. Calcium and integrin-binding family member 3 (CIB3), also known as Kinase-interacting protein 3, functions as an auxiliary subunit of the sensory mechanoelectrical transduction (MET) channel in hair cells. This protein plays a critical role in regulating both the localization and function of hair cell MET channels, which are essential for sensory transduction in the auditory and vestibular systems. The provided function summary indicates that CIB3's regulatory role in MET channel dynamics is conserved across species, as evidenced by similarity to the orthologous protein in other organisms.