Recombinant HOOK2 protein (His tag)

Catalog Number	540976
Synonyms	h-hook2; hHK2
Species	Human
Expression System	E. coli
Accession	Q96ED9
Molecular Weight	Predictes a molecular mass of 18.77 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 19 kDa band.

Product Information

Sequence Region	1-154
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>87%, 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 1-154 aa (Q96ED9) 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 Protein Hook homolog 2 (h-hook2) Fragment (aa 1-154) is a high-purity protein designed for studying the Calponin-homology (CH) domain. This fragment provides an essential tool for researchers investigating vesicle trafficking, centrosome function, and aggresome formation mechanisms. Protein Hook homolog 2 (HOOK2) is a crucial component of the FTS/Hook/FHIP complex (FHF complex), which promotes vesicle trafficking and fusion through interactions with the HOPS complex. It contributes to centrosome establishment and maintenance and plays a role in aggresome positioning—pericentriolar accumulations of misfolded proteins, proteasomes, and chaperones. The FHF complex also facilitates AP-4 complex distribution to perinuclear regions. HOOK2 localizes to the cytoplasm, centrosome, trans-Golgi network, and cytoskeleton, often associating with microtubules and aggregating at aggresomes near the centrosome. Its presence in punctate cytoplasmic foci and the manchette of spermatids underscores its diverse cellular roles.