Recombinant BRK1 protein (His tag)

Catalog Number	540862
Synonyms	BRK1
Species	Human
Expression System	E. coli
Accession	Q8WUW1
Molecular Weight	Predictes a molecular mass of 10.27 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 11 kDa band.

Product Information

Sequence Region	2-75
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>90%, 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 2-75 aa (Q8WUW1) 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 BRICK1 (BRK1) Fragment (aa 2-75) is a highly stable and soluble protein unit designed for structural and biochemical studies. This fragment retains key functional regions, making it ideal for investigating actin and microtubule regulation mechanisms. BRICK1 (BRK1) is a human protein involved in the regulation of actin and microtubule organization. As part of the WAVE complex, it activates the Arp2/3 complex, playing a critical role in cellular processes such as BDNF-NTRK2 endocytic trafficking and signaling from early endosomes. The protein is localized in the cytoplasm and cytoskeleton, underscoring its importance in cytoskeletal dynamics and intracellular transport pathways.