Recombinant KI13B protein (His tag)

Catalog Number	548332
Synonyms	Kinesin-like protein GAKIN
Species	Human
Expression System	E. coli
Accession	Q9NQT8
Molecular Weight	Predictes a molecular mass of 9.79 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 10 kDa band.

Product Information

Sequence Region	1697-1770
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 1697-1770 aa (Q9NQT8) 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 KIF13B (1697-1770) Fragment: A high-purity protein fragment derived from human Kinesin-like protein KIF13B (GAKIN), encompassing the critical CAP-Gly domain. This product is an essential tool for researchers investigating cytoskeletal dynamics, intracellular trafficking, and neuronal development. KIF13B, or Kinesin-like protein GAKIN, is a human protein involved in the reorganization of the cortical cytoskeleton and plays a key role in axon formation by promoting the development of extra axons. It is functionally important for the intracellular trafficking of MAGUKs and associated protein complexes, as supported by research (PubMed:20194617). The protein localizes to the cytoplasm and cytoskeleton, with specific accumulation in the distal parts of microtubules within axon tips but not dendrites, highlighting its significance in polarized cellular structures and neuronal function.