Recombinant KI26B protein (His tag)

Catalog Number	548686
Species	Human
Expression System	E. coli
Accession	Q2KJY2
Molecular Weight	Predictes a molecular mass of 43.76 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 44 kDa band.

Product Information

Sequence Region	416-803
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 416-803 aa (Q2KJY2) 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 Kinesin-like protein KIF26B (Fragment 416-803) from Homo sapiens is a high-purity protein fragment engineered to encompass the kinesin motor domain. This product is an essential tool for researchers studying microtubule-associated motor functions and embryonic kidney development mechanisms. The full-length KIF26B protein is critical for embryonic kidney development, where it facilitates compact adhesion between mesenchymal cells adjacent to ureteric buds. It interacts with MYH10 to help establish basolateral integrity in the mesenchyme and supports polarized ITGA8 expression, which maintains GDNF expression necessary for ureteric bud attraction. Although KIF26B appears to lack ATPase activity, it remains constitutively associated with microtubules. The protein is localized in the cytoplasm and cytoskeleton, underscoring its role in structural and regulatory cellular processes.