Recombinant EKI1 protein (His tag)

Catalog Number	541297
Synonyms	EKI 1
Species	Human
Expression System	E. coli
Accession	Q9HBU6
Molecular Weight	Predictes a molecular mass of 45.78 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 46 kDa band.

Product Information

Sequence Region	67-452
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 67-452 aa (Q9HBU6) 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 Ethanolamine Kinase 1 (EKI 1) Fragment (67-452) is a highly specific and soluble protein unit engineered for ethanolamine phosphorylation studies, offering a stable tool for structural and biochemical research in phosphatidylethanolamine biosynthesis pathways. Ethanolamine Kinase 1 (EKI 1), encoded by the ETNK1 gene in Homo sapiens, is an enzyme that catalyzes the phosphorylation of ethanolamine with high specificity, serving as a potential rate-controlling step in the biosynthesis of phosphatidylethanolamine—a key phospholipid in cellular membranes. This reaction is critical for maintaining membrane integrity and signaling processes. The protein is localized in the cytoplasm, as supported by experimental evidence, where it facilitates essential metabolic functions. The provided fragment (residues 67-452) has been selected to ensure stability and solubility, enabling detailed investigations into its enzymatic mechanisms and structural properties.