Recombinant GLCTK protein (His tag)

Catalog Number	540678
Synonyms	HBeAg-binding protein 4
Species	Human
Expression System	E. coli
Accession	Q8IVS8
Molecular Weight	Predictes a molecular mass of 53.61 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 54 kDa band.

Product Information

Sequence Region	32-523
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>89%, 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 32-523 aa (Q8IVS8) 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 Glycerate kinase (EC 2.7.1.31) fragment (amino acids 32-523), a stable and soluble protein unit specifically designed for structural and biochemical studies. This 492-amino acid fragment represents a computationally optimized region of the enzyme, providing researchers with a reliable tool for investigating kinase function and mechanisms. Glycerate kinase (GLYCTK) is a human enzyme encoded by the GLYCTK gene, also known as HBeAg-binding protein 4. The full-length protein exhibits distinct subcellular localization patterns between its isoforms: Isoform 1 is localized to the cytoplasm, while Isoform 2 demonstrates dual localization in both the cytoplasm and mitochondria. As a member of the kinase enzyme family (EC 2.7.1.31), glycerate kinase plays a crucial role in cellular metabolism, catalyzing the phosphorylation of glycerate. The protein's presence in multiple cellular compartments suggests potential involvement in diverse metabolic pathways and cellular processes.