Recombinant HBM protein (His tag)

Catalog Number	549239
Synonyms	Hemoglobin mu chain; Mu-globin
Species	Human
Expression System	E. coli
Accession	Q6B0K9
Molecular Weight	Predictes a molecular mass of 17.27 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 17 kDa band.

Product Information

Sequence Region	1-141
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 1-141 aa (Q6B0K9) 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 Hemoglobin subunit mu (HBM) fragment (residues 1-141) is a high-purity protein designed for functional studies of the Globin domain. This product enables researchers to investigate the specific roles of the mu-globin chain in oxygen transport and storage, providing a reliable tool for biochemical and biophysical applications. Hemoglobin subunit mu, encoded by the HBM gene in Homo sapiens, is a component of hemoglobin, the essential oxygen-carrying protein in red blood cells. While detailed functional and subcellular localization data are not fully characterized in the provided information, hemoglobin subunits typically assemble into tetramers to form functional hemoglobin complexes responsible for oxygen binding and transport. This recombinant fragment spans the complete Globin domain, facilitating targeted research into its structural and functional properties.