Recombinant HBA protein (His tag)

Catalog Number	547149
Synonyms	Alpha-globin; Hemoglobin alpha chain
Species	Human
Expression System	E. coli
Accession	P69905
Molecular Weight	Predictes a molecular mass of 16.78 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 17 kDa band.

Product Information

Sequence Region	2-142
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 2-142 aa (P69905) 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 alpha (Alpha-globin) fragment (residues 2-142) is a high-purity protein designed for oxygen transport and cannabinoid receptor research. This 141-amino acid fragment fully encompasses the Globin domains, making it an ideal tool for studying domain-specific functions in vitro. Hemoglobin subunit alpha is essential for oxygen transport from lungs to peripheral tissues in humans. The full-length protein is cleaved to produce Hemopressin, which acts as a selective antagonist of cannabinoid receptor CNR1, effectively blocking receptor signaling pathways. This makes the protein significant for both respiratory physiology and neuropharmacology research, particularly in studying cannabinoid receptor modulation.