Recombinant KLF2 protein (His tag)

Catalog Number	546337
Synonyms	Lung krueppel-like factor
Species	Human
Expression System	E. coli
Accession	Q9Y5W3
Molecular Weight	Predictes a molecular mass of 11.85 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 12 kDa band.

Product Information

Sequence Region	269-355
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 269-355 aa (Q9Y5W3) 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 Krueppel-like factor 2 (KLF2) fragment (residues 269-355) from Homo sapiens, designed for structural and biochemical studies. This 87-amino acid fragment is a stable, soluble unit ideal for investigating the transcriptional regulatory functions of KLF2 in a simplified, functional context. Krueppel-like factor 2 (KLF2), also known as Lung krueppel-like factor, is a human transcription factor that binds to CACCC promoter elements in target genes, such as HBB/beta globin and NOV, to activate their transcription. It may also modulate the binding of the RARA nuclear receptor to RARE DNA elements, contributing to transcriptional regulation. KLF2 is localized in the nucleus, where it performs its role in gene expression control, making it significant for studies in transcriptional mechanisms and related cellular processes.