Recombinant KLF5 protein (His tag)

Catalog Number	544947
Synonyms	Basic transcription element-binding protein 2; BTE-binding protein 2; Colon krueppel-like factor; GC-box-binding protein 2; Intestinal-enriched krueppel-like factor; Transcription factor BTEB2
Species	Human
Expression System	E. coli
Accession	Q13887
Molecular Weight	Predictes a molecular mass of 11.86 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 12 kDa band.

Product Information

Sequence Region	372-457
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 372-457 aa (Q13887) 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	This recombinant protein product features a stable and soluble fragment (residues 372-457) of the human Krueppel-like factor 5 (KLF5), a key transcription factor involved in gene regulation. The fragment is optimized for structural and biochemical studies, offering researchers a reliable tool for investigating KLF5's molecular mechanisms. Krueppel-like factor 5 (KLF5) is a transcription factor in humans that binds to GC box promoter elements, activating the transcription of target genes. It plays a critical role in regulating gene expression and is localized to the nucleus, as supported by experimental evidence. KLF5's function in transcriptional activation makes it significant for understanding cellular processes such as proliferation and differentiation, with implications in various research fields including cancer biology and development.