Recombinant TEF protein (His tag)

Catalog Number	544876
Species	Human
Expression System	E. coli
Accession	Q10587
Molecular Weight	Predictes a molecular mass of 16.99 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 18 kDa band.

Product Information

Sequence Region	171-303
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>85%, 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 171-303 aa (Q10587) 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 Thyrotroph Embryonic Factor (TEF) Fragment (aa 171-303) is a high-purity protein designed for studying the bZIP domain's role in transcription factor activity. This 133-amino acid fragment provides a targeted tool for investigating DNA binding and promoter transactivation mechanisms in research applications. Thyrotroph Embryonic Factor (TEF) is a human transcription factor that specifically binds to and transactivates the TSHB promoter. It recognizes the minimal DNA-binding sequence 5'-[TC][AG][AG]TTA[TC][AG]-3', playing a crucial role in transcriptional regulation. The protein is localized to the nucleus, where it executes its DNA-binding and gene regulatory functions. The bZIP domain (amino acids 233-296) contained within this fragment is essential for its DNA-binding capability and transcriptional activity.