Recombinant TF3B protein (His tag)

Catalog Number	547890
Synonyms	TFIIIB90; hTFIIIB90; B-related factor 1; BRF-1; hBRF; TAF3B2; TATA box-binding protein-associated factor, RNA polymerase III, subunit 2
Species	Human
Expression System	E. coli
Accession	Q92994
Molecular Weight	Predictes a molecular mass of 38.86 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 40 kDa band.

Product Information

Sequence Region	1-335
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>86%, 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 1-335 aa (Q92994) 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 product is a recombinant fragment of the human Transcription factor IIIB 90 kDa subunit (TFIIIB90), spanning residues 1-335. It is designed as a stable and soluble unit ideal for structural studies and biochemical assays, supporting research into RNA polymerase III transcription mechanisms. The full-length TFIIIB90 protein, encoded by the BRF1 gene, functions as a general activator of RNA polymerase III, utilizing distinct TFIIIB complexes to regulate transcription at various promoters. Isoform 1 is specifically involved in transcribing tRNA, adenovirus VA1, 7SL, and 5S RNA, while isoform 2 is essential for U6 promoter transcription. The protein is localized to the nucleus, underscoring its critical role in gene expression regulation within eukaryotic cells.