Recombinant BRF2 protein (His tag)

Catalog Number	548278
Synonyms	TFIIIB50; hTFIIIB50; B-related factor 2; BRF-2; hBRFU
Species	Human
Expression System	E. coli
Accession	Q9HAW0
Molecular Weight	Predictes a molecular mass of 37.00 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 37 kDa band.

Product Information

Sequence Region	1-314
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 1-314 aa (Q9HAW0) 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 Transcription factor IIIB 50 kDa subunit (TFIIIB50), encompassing amino acids 1-314, is a high-purity protein fragment engineered for stability and solubility. This product supports research into RNA polymerase III transcription mechanisms and gene regulation studies. Transcription factor IIIB 50 kDa subunit (TFIIIB50), encoded by the BRF2 gene, is a general activator of RNA polymerase III transcription, specifically required for genes with upstream promoter elements. It regulates gene expression by functioning as an activator under normal conditions and down-regulating target genes in response to oxidative stress. Overexpression of TFIIIB50 has been shown to protect cells against apoptosis induced by oxidative stress. The protein is localized to the nucleus, underscoring its role in transcriptional processes. This recombinant fragment (1-314) was selected computationally to provide a stable, soluble unit ideal for structural and biochemical investigations.