Recombinant BDP1 protein (His tag)

Catalog Number	537117
Synonyms	Transcription factor IIIB 150; TFIIIB150; Transcription factor-like nuclear regulator
Species	Human
Expression System	E. coli
Accession	A6H8Y1
Molecular Weight	Predictes a molecular mass of 11.66 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 12 kDa band.

Product Information

Sequence Region	300-382
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 300-382 aa (A6H8Y1) 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	Introducing the recombinant human Transcription factor TFIIIB component B'' homolog (BDP1) fragment (residues 300-382), a stable and soluble 83-amino acid protein unit ideal for structural and biochemical studies. This fragment, derived from a key activator of RNA polymerase III transcription, offers researchers a reliable tool to investigate transcriptional regulation mechanisms. The full-length Transcription factor TFIIIB component B'' homolog (BDP1) functions as a general activator of RNA polymerase III transcription, essential for transcribing all three types of polymerase III promoters, including genes with internal or upstream promoter elements. It plays a critical role in initiating RNA synthesis by polymerase III, supporting fundamental cellular processes. The protein is localized to the nucleus, where it directly participates in transcriptional regulation, underscoring its importance in gene expression control.