Recombinant TAF7 protein (His tag)

Catalog Number	540348
Synonyms	RNA polymerase II TBP-associated factor subunit F; Transcription initiation factor TFIID 55 kDa subunit; TAF(II)55; TAFII-55; TAFII55
Species	Human
Expression System	E. coli
Accession	Q15545
Molecular Weight	Predictes a molecular mass of 23.06 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 25 kDa band.

Product Information

Sequence Region	1-187
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>88%, 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 1-187 aa (Q15545) 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 Initiation Factor TFIID Subunit 7 (TAF7) fragment (amino acids 1-187) is a high-purity protein designed for structural and biochemical studies. This stable, soluble fragment supports research into RNA polymerase II transcription initiation mechanisms. Transcription Initiation Factor TFIID Subunit 7 (TAF7) is a critical component of the TFIID basal transcription factor complex, which plays a major role in initiating RNA polymerase II-dependent transcription. TFIID recognizes and binds promoters with or without a TATA box via TBP (TATA-box-binding protein) and promotes assembly of the pre-initiation complex. TAF7 specifically forms a promoter DNA-binding subcomplex with TAF1 and TAF2 within TFIID and is found in both TFIID alpha (containing TAF10) and TFIID beta (lacking TAF10) complexes. The full-length protein localizes to the nucleus, consistent with its fundamental role in transcriptional regulation. This recombinant fragment represents a structurally stable region ideal for investigating TAF7's molecular interactions and functional properties.