Recombinant TTF1 protein (His tag)

Catalog Number	547341
Synonyms	TTF-1; RNA polymerase I termination factor; Transcription termination factor I; TTF-I
Species	Human
Expression System	E. coli
Accession	Q15361
Molecular Weight	Predictes a molecular mass of 46.09 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 48 kDa band.

Product Information

Sequence Region	490-867
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 490-867 aa (Q15361) 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	Our recombinant protein product features a precisely engineered fragment (amino acids 490-867) of human Transcription Termination Factor 1 (TTF-1), encompassing the complete Myb-like 1 and Myb-like 2 domains. This fragment serves as an exceptional tool for researchers investigating ribosomal gene transcription termination, replication fork arrest, and chromatin-based RNA polymerase I regulation, enabling targeted functional studies of these critical domains. Transcription Termination Factor 1 (TTF-1) is a multifunctional nucleolar protein essential for ribosomal gene transcription termination, replication fork arrest, and chromatin-dependent RNA polymerase I transcription regulation. It exhibits dual functionality in rDNA transcription, participating in both activation and silencing processes. TTF-1 localizes primarily to the nucleus, with specific presence in nucleoli and nucleoplasm, and its subcellular distribution may be influenced by interactions with proteins such as NPM1/B23 and CDKN2A/ARF. This dynamic localization supports its role in shuttling between nuclear compartments to regulate ribosomal DNA activity.