Recombinant TMF1 protein (His tag)

Catalog Number	537922
Synonyms	TMF; Androgen receptor coactivator 160 kDa protein; Androgen receptor-associated protein of 160 kDa
Species	Human
Expression System	E. coli
Accession	P82094
Molecular Weight	Predictes a molecular mass of 54.08 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 66 kDa band.

Product Information

Sequence Region	460-911
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>87%, 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 460-911 aa (P82094) 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 TATA element modulatory factor (TMF) fragment (amino acids 460-911) from Homo sapiens, offering a stable and soluble unit for investigating androgen receptor coactivation, STAT3 regulation, and RAB6-dependent retrograde transport mechanisms in cellular studies. TMF1, also known as androgen receptor coactivator 160 kDa protein, functions as a potential coactivator for the androgen receptor and mediates STAT3 degradation. It plays critical roles in RAB6-dependent retrograde transport processes, including pathways from endosomes to the Golgi and from the Golgi to the endoplasmic reticulum. Additionally, it binds the HIV-1 TATA element, inhibiting transcriptional activation by TATA-binding protein (TBP). The full-length protein is localized in the cytoplasm, nucleus, and Golgi apparatus membrane, where it concentrates at budding structures at cisternae tips, underscoring its importance in intracellular trafficking and transcriptional regulation.