Recombinant TEAD1 protein (His tag)

Catalog Number	537654
Synonyms	NTEF-1; Protein GT-IIC; TEA domain family member 1; TEAD-1; Transcription factor 13; TCF-13
Species	Human
Expression System	E. coli
Accession	P28347
Molecular Weight	Predictes a molecular mass of 27.64 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 28 kDa band.

Product Information

Amino Acid Sequence	MSKIKSVPAW QGRSIGTTKL RLVEFSAFLE QQRDPDSYNK HLFVHIGHAN HSYSDPLLES VDIRQIYDKF PEKKGGLKEL FGKGPQNAFF LVKFWADLNC NIQDDAGAFY GVTSQYESSE NMTVTCSTKV CSFGKQVVEK VETEYARFEN GRFVYRINRS PMCEYMINFI HKLKHLPEKY MMNSVLENFT ILLVVTNRDT QETLLCMACV FEVSNSEHGA QHHIYRLVKD LEHHHHHH
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>85%, 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 202-426 aa (P28347) were fused with C-terminal 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.

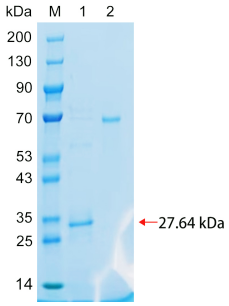
Description

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Recombinant Human TEAD-1 (Transcriptional enhancer factor TEF-1) Fragment (aa 202-426) is a high-quality, stable protein fragment designed for structural and biochemical studies. This 225-amino acid fragment retains key functional characteristics, making it an ideal tool for investigating the Hippo signaling pathway, transcriptional regulation, and cellular processes such as proliferation and migration. TEAD-1, encoded by the TEAD1 gene, is a critical transcription factor in the Hippo signaling pathway, which regulates organ size, tumor suppression, and cellular homeostasis by controlling proliferation and apoptosis. It functions by binding to specific DNA motifs like SPH and GT-IIC enhansons, mediating gene expression driven by YAP1 and WWTR1/TAZ, thereby influencing cell migration and epithelial-mesenchymal transition. TEAD-1 is also involved in cardiac development and is localized to the nucleus, underscoring its role in transcriptional activation. This recombinant fragment provides a soluble and stable unit for detailed mechanistic studies.

Validation

SDS-PAGE



Recombinant TEAD1 protein (His tag) SDS-PAGE
M: Marker; Lane 1: TEAD1; Lane 2: BSA