

TEAD3 Protein, Human (His-SUMO)

Cat. No.:	HY-P71626
Synonyms:	DTEF 1; DTEF-1; DTEF1; ETFR 1; ETFR1; TEA domain family member 3; TEA domain family member 5; TEAD 3; TEAD-3; Tead3; TEAD5; TEF 5; TEF5; Transcriptional enhancer factor 5
Species:	Human
Source:	E. coli
Accession:	Q99594 (112M-435D)
Gene ID:	7005
Molecular Weight:	Approximately 52.3 kDa

PROPERTIES

AA Sequence	<pre> M N L D Q V S K D K A L Q S M A S M S S A Q I V S A S V L Q N K F S P P S P L P Q A V F S T S S R F W S S P P L L G Q Q P G P S Q D I K P F A Q P A Y P I Q P P L P P T L S S Y E P L A P L P S A A A S V P V W Q D R T I A S S R L R L L E Y S A F M E V Q R D P D T Y S K H L F V H I G Q T N P A F S D P P L E A V D V R Q I Y D K F P E K K G G L K E L Y E K G P P N A F F L V K F W A D L N S T I Q E G P G A F Y G V S S Q Y S S A D S M T I S V S T K V C S F G K Q V V E K V E T E Y A R L E N G R F V Y R I H R S P M C E Y M I N F I H K L K H L P E K Y M M N S V L E N F T I L Q V V T S R D S Q E T L L V I A F V F E V S T S E H G A Q H H V Y K L V K D </pre>
Appearance	Lyophilized powder.
Formulation	Lyophilized after extensive dialysis against solution in 10 mM Tris-HCl, 1 mM EDTA, 6% Trehalose, pH 8.0.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH ₂ O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	TEAD3, a transcription factor, assumes a pivotal role in the Hippo signaling pathway, a regulatory network crucial for organ size control and tumor suppression by orchestrating proliferation inhibition and apoptosis promotion. The core of this pathway involves a kinase cascade wherein MST1/MST2, in complex with its regulatory protein SAV1, phosphorylates and activates LATS1/2 complexed with its regulatory partner MOB1. MOB1 subsequently phosphorylates and inactivates the
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YAP1 oncoprotein and WWTR1/TAZ. TEAD3 functions by mediating the gene expression of YAP1 and WWTR1/TAZ, thereby regulating cell proliferation, migration, and epithelial-mesenchymal transition (EMT) induction. Additionally, TEAD3 is involved in binding to multiple functional elements of the human chorionic somatomammotropin-B gene enhancer. Its interactions with YAP1 and WWTR1/TAZ underscore its central role in the regulatory dynamics of this signaling pathway.

Caution: Product has not been fully validated for medical applications. For research use only.

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