TEAD4 Protein, Human (His)

Cat. No.:	HY-P71535
Synonyms:	EFTR 2; EFTR2; hRTEF 1B; hRTEF1B; TEAD 4; TEAD-4; TEAD4; TEAD4_HUMAN; TEF 3; TEF3; TEFR 1; TEFR1; Transcription factor 13 (SV40 transcriptional enhancer factor) like 1; Transcription factor 13 like 1; Transcription factor 13-like 1; Transcription factor RTEF 1; Transcription factor RTEF-1; Transcription factor RTEF1; Transcriptional enhancer factor 1 related; Transcriptional enhancer factor 3
Species:	Human
Source:	E. coli
Accession:	Q15561 (74M-434E)
Gene ID:	7004
Molecular Weight:	Approximately 44.7 kDa

PROPERTIES

AA Sequence	M Y G R N E L I A R Y I K L R T G K T R T R K Q V S S H I Q V L A R R K A R E I Q A K L K D Q A A K D K A L Q S M A A M S S A Q I I S A T A F H S S M A L A R G P G R P A V S G F W Q G A L P G Q A G T S H D V K P F S Q Q T Y A V Q P P L P L P G F E S P A G P A P S P S A P P A P P W Q G R S V A S S K L W M L E F S A F L E Q Q Q D P D T Y N K H L F V H I G Q S S P S Y S D P Y L E A V D I R Q I Y D K F P E K K G G L K D L F E R G P S N A F F L V K F W A D L N T N I E D E G S S F Y G V S S Q Y E S P E N M I I T C S T K V C S F G K Q V V E K V E T E Y A R Y E N G H Y S Y R I H R S P L 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 N R D T Q E T L L C I A Y V F E V S A S E H G A Q H H I Y R L V K E
Appearance	Lyophilized powder.
Formulation	Lyophilized after extensive dialysis against solution in 10 mM Tris-HC1, 1 mM EDTA, 6% Trehalose, pH 8.0.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O.
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	TEAD4, 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 pathway's core features a kinase cascade wherein MST1/MST2, in conjunction with its regulatory protein SAV1, phosphorylates and activates LATS1/2 complexed with its regulatory partner MOB1. MOB1 subsequently phosphorylates and inactivates the YAP1 oncoprotein and WWTR1/TAZ. TEAD4 functions by mediating the gene expression of YAP1 and WWTR1/TAZ, thereby overseeing cellular processes such as proliferation, migration, and epithelial-mesenchymal transition (EMT) induction. The protein exhibits specific and non-cooperative binding to the Sph and GT-IIC 'enhansons' (5'-GTGGAATGT-3'), activating transcription, and also interacts with the M-CAT motif. TEAD4's intricate interactions with YAP1 and WWTR1/TAZ underscore its central role in the regulatory dynamics of this signaling pathway.

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