ETFR-2/TEAD-4 Protein, Mouse

Cat. No.:	HY-P71575
Synonyms:	ETF-related factor 2; ETFR-2; TEA domain family member 4; TEAD-4; TEF-1-related factor 1; TEF-1-related factor FR-19; RTEF-1
Species:	Mouse
Source:	E. coli
Accession:	Q62296 (210R-427E)
Gene ID:	21679
Molecular Weight:	Approximately 25.7 kDa

PROPERTIES

AA Sequence	R S I A S S K L W M L E F S A F L E R Q Q D P D T Y N K H L F V H I S Q S S P S Y S D P Y L E T V D I R Q I Y D K F P E K K G G L K E L F E R G P S N A F F L V K F W A D L N T N I D D E G S A 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 L 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-HCl, 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	ETFR-2/TEAD-4, a pivotal transcription factor, assumes a critical role in the Hippo signaling pathway, a pathway intricately linked to organ size control and tumor suppression through the regulation of proliferation and apoptosis. This pathway involves a kinase cascade wherein MST1/MST2, in complex with its regulatory protein SAV1, phosphorylates and activates LATS1/2 in complex with its regulatory protein MOB1. Subsequently, MOB1 phosphorylates and inactivates the YAP1 oncoprotein and WWTR1/TAZ. ETFR-2/TEAD-4 acts by mediating the gene expression of YAP1 and WWTR1/TAZ, thus regulating crucial cellular processes such as proliferation, migration, and epithelial-mesenchymal transition (EMT) induction. The protein binds specifically and non-cooperatively to the Sph and GT-IIC 'enhansons' (5'-GTGGAATGT-3') and

activates transcription. Additionally, it interacts with the M-CAT motif. While potentially playing a role in the embryonic development of skeletal muscle, ETFR-2/TEAD-4 also interacts with WWTR1/TAZ and YAP1, highlighting its multifaceted involvement in regulatory networks.

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