

TLE3 Protein, Human (GST)

Cat. No.:	HY-P76675
Synonyms:	Transducin-like enhancer protein 3; ESG3; TLE3; KIAA1547
Species:	Human
Source:	E. coli
Accession:	Q04726 (S484-Y772)
Gene ID:	7090
Molecular Weight:	Approximately 32 kDa

PROPERTIES

AA Sequence	<pre> S H G E V V C A V T I S N P T R H V Y T G G K G C V K I W D I S Q P G S K S P I S Q L D C L N R D N Y I R S C K L L P D G R T L I V G G E A S T L T I W D L A S P T P R I K A E L T S S A P A C Y A L A I S P D A K V C F S C C S D G N I A V W D L H N Q T L V R Q F Q G H T D G A S C I D I S H D G T K L W T G G L D N T V R S W D L R E G R Q L Q Q H D F T S Q I F S L G Y C P T G E W L A V G M E S S N V E V L H H T K P D K Y Q L H L H E S C V L S L K F A Y C G K W F V S T G K D N L L N A W R T P Y G A S I F Q S K E S S S V L S C D I S A D D K Y I V T G S G D K K A T V Y E V I Y </pre>
Appearance	Lyophilized powder
Formulation	Lyophilized from a 0.2 µm filtered solution of 20 mM Tris-HCL, 150 mM NaCl, 5 mM GSH, pH 7.5.
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. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
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	TLE3, a transcriptional corepressor, intricately regulates gene expression by binding to various transcription factors and exerting inhibitory effects on transcriptional activation mediated by CTNNB1 and TCF family members in the Wnt signaling pathway. TLE3 forms homotetramers and heterooligomers with other family members, and its regulatory influence may be modulated by its association with the dominant-negative factor AES. Among its molecular interactions, TLE3 binds to LEF1,
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TCF7, and TCF7L1, establishing its involvement in modulating the transcriptional activities of these crucial factors. Additionally, TLE3 engages in protein-protein interactions with FOXA2, XIAP/BIRC4, and TCF7L2/TCF4. Notably, its interaction with TBX18, involving the engrailed homology 1 repressor motif, leads to a reduction in TBX18's transcriptional activity, underscoring TLE3's role in finely tuning specific transcriptional responses.

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

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