TLE1 Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	TLE1, Recombinant Protein
Full Product Name	Recombinant Human TLE1
Product Gene Name	TLE1 recombinant protein
Product Synonym Names	E(Sp1) homolog; Enhancer of split groucho 1; Enhancer of split groucho like protein 1; Enhancer of split groucho-like protein 1; ESG; ESG1; GRG1; TLE1; TLE1_HUMAN; Transducin like enhancer of split 1; Transducin like enhancer of split 1 (E(sp1) homolog Drosophila); Transducin like enhancer of split 1 homolog of Drosophila E(sp1); Transducin like enhancer protein 1; Transducin-like enhancer protein 1
Host	E Coli
Form/Format	Lyophilized from a 0.2um filtered solution in PBS with 5% trehalose, pH7.4
Purity/Purification	Greater than 95% by SDS-PAGE gel analyses
Preparation and Storage	Store at -20 degree C for 12 months as lyophilized; 2-8 degree C for 1 month under sterile conditions after reconstitution
Molecular Weight	83,201 Da
Sequence Positions	1-251
Chromosome Location	Chromosome: 9; NC_000009.11 (84198598..84303596, complement). Location: 9q21.32
OMIM	600189
3D Structure	ModBase 3D Structure for Q04724
Species	Human
Tag	N-terminal His-Tag
Reconstitution	Centrifuge the vial at 10,000rpm for 1 minute, reconstitute at 200ug/ml in sterile distilled water
ISO Certification	Manufactured in an ISO 13485:2003 and EN ISO 13485:2012 Certified Laboratory.
Applications Tested/Suitable for TLE1 recombinant protein	Western Blot (WB), ELISA (EIA)
Related Product Information for TLE1 recombinant protein	MBS7614158 is a recombinant protein targeting TLE1. Also known as Recombinant Human TLE1. Host: E Coli.
Other Notes	Small volumes of TLE1 recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for TLE1. It may not necessarily be applicable to this product.

NCBI GI #	21541824
NCBI GeneID	7088
NCBI Accession #	NP_005068.2
UniProt Primary Accession #	Q04724

UniProt Secondary Accession #	Q5T3G4; Q969V9; A8K495
UniProt Related Accession #	Q04724
GenBank Nucleotide #	NM_005077.3
NCBI Official Full Name	transducin-like enhancer protein 1
NCBI Official Synonym Full Names	transducin-like enhancer of split 1 (E(sp1) homolog, Drosophila)
NCBI Official Symbol	TLE1
NCBI Official Synonym Symbols	ESG; ESG1; GRG1
UniProt Protein Name	Transducin-like enhancer protein 1
UniProt Synonym Protein Names	E(Sp1) homolog; Enhancer of split groucho-like protein 1
Protein Family	Transducin-like enhancer protein
UniProt Gene Name	TLE1
UniProt Synonym Gene Names	ESG1
UniProt Entry Name	TLE1_HUMAN
NCBI Protein Information	transducin-like enhancer protein 1; e(Sp1) homolog; enhancer of split groucho 1; enhancer of split groucho-like protein 1; transducin-like enhancer of split 1, homolog of Drosophila E(sp1)
UniProt Comments for TLE1	Function: Transcriptional corepressor that binds to a number of transcription factors. Inhibits NF-kappa-B-regulated gene expression. Inhibits the transcriptional activation mediated by FOXA2, and by CTNNB1 and TCF family members in Wnt signaling. The effects of full-length TLE family members may be modulated by association with dominant-negative AES. Unusual function as coactivator for ESRRG. Ref.13 Subunit structure: Homooligomer and heterooligomer with other family members. Binds LEF1, RUNX1, RUNX3, FOXA2, KDM6A, UTY, histone H3, HESX1, ESRRG and the NF-kappa-B subunit RELA. Interacts with HES1 (via WRPW motif). Ref.6 Ref.7 Ref.8 Ref.9 Ref.10 Ref.11 Ref.12 Ref.13 Ref.14 Ref.16 Subcellular location: Nucleus. Note: Nuclear and chromatin-associated, depending on isoforms and phosphorylation status. Hyperphosphorylation decreases the affinity for nuclear components. Ref.15 Tissue specificity: In all tissues examined, mostly in brain, liver and muscle. Post-translational modification: Phosphorylated, probably by CDK1. The degree of phosphorylation varies throughout the cell cycle, and is highest at the G2/M transition. Becomes hyperphosphorylated in response to cell differentiation and interaction with HES1 or RUNX1. Ref.15Ubiquitinated by XIAP/BIRC4. Ref.21 Sequence similarities: Belongs to the WD repeat Groucho/TLE family.Contains 6 WD repeats.
Research Articles on TLE1	**1.** TLE1 is selectively upregulated in invasive breast tumors relative to noninvasive ductal carcinoma in situ and normal mammary epithelial tissues.
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