

TLE3 Protein, Human, Recombinant (aa 484-772, GST)

General Information

Synonyms:	transducin-like enhancer of split 3;GRG3;ESG3;HsT18976;ESG
Protein Construction:	A DNA sequence encoding the N-terminal fragment of human TLE3 (Q04726-1) (Ser 484-Tyr 772) was fused with the GST tag at the N-terminus. Predicted N terminal: Met
Species:	Human
Expression Host:	E. coli
Accession:	Q04726-1
Molecular Weight:	58.5 kDa (predicted); 58.5 kDa (reducing conditions)

QC Testing

Biological Activity:	Activity testing is in progress. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 78 % as determined by SDS-PAGE
Endotoxin:	Please contact us for more information.
Formulation:	Lyophilized from a solution filtered through a 0.22 µm filter, containing 20 mM Tris, 0.15M NaCl, 5 mM GSH, pH 7.5. Typically, a mixture containing 5% to 8% trehalose, mannitol, and 0.01% Tween 80 is incorporated as a protective agent before lyophilization.

Preparation and Storage

Reconstitution:
A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

The association between high TLE3 expression and a favorable response to taxane-containing chemotherapy regimens was validated in patients with non-serous ovarian cancer. That TLE3 expression may serve as a marker of chemosensitivity in taxane-treated patients with non-serous histologies. Transducin-like enhancer of Split3 (TLE3) serves as a transcriptional corepressor during cell differentiation and shows multiple roles in different kinds of cancers. TLE3 repressed CRC proliferation partly through inhibition of MAPK and AKT signaling pathways,

suggesting the possibility of TLE3 as a biomarker for CRC prognosis.

Reference

Villanueva CJ, et al. (2011) TLE3 is a dual-function transcriptional coregulator of adipogenesis. *Cell Metab.* 13(4): 413-27.

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Nakaya HI, et al. (2007) Splice variants of TLE family genes and up-regulation of a TLE3 isoform in prostate tumors. *Biochem Biophys Res Commun.* 364(4): 918-23.

Brinkmeier ML, et al. (2003) TCF and Groucho-related genes influence pituitary growth and development. *Mol Endocrinol.* 17: 2152-2161.

Dasen JS, et al. (2001) Temporal regulation of a paired-like homeodomain repressor/TLE corepressor complex and a related activator is required for pituitary organogenesis. *Genes Dev.* 15: 3193-3207.

Douglas KR, et al. (2001) Identification of members of the Wnt signaling pathway in the embryonic pituitary gland. *Mamm Genome.* 12: 843-851.

Chen G, et al. (2000) Groucho/TLE family proteins and transcriptional repression. *Gene.* 249: 1-16.

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