Recombinant TLE3 protein (His tag)

Catalog Number	547196
Synonyms	Enhancer of split groucho-like protein 3; ESG3
Species	Human
Expression System	E. coli
Accession	Q04726
Molecular Weight	Predictes a molecular mass of 37.42 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 37 kDa band.

Product Information

Sequence Region	446-772
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>88%, by SDS-PAGE with Coomassie Brilliant Blue staining.
Endotoxin	Not tested.
Activity	Not tested.
Stability	Samples are stable for up to twelve months from date of receipt at -70℃
Protein Construction	DNA encoding 446-772 aa (Q04726) were fused with 6His tag.

Storage & Handling

Reconstitution	Reconstitute at 0.25 μg/μl in sterile water for short-term storage. Reconstitution with 50% glycerol solution is recommended for longer term storage (see Stability and Storage for more details). If a different concentration is needed for your purposes please adjust the reconstitution volume as required (please note: the ion concentration of the final solution will vary according to the volume used). Note: Centrifuge vial before opening. When reconstituting, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution.
Storage	Store it under sterile conditions at -20℃ to -80℃. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Shipping	In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise.

Description

Description	This recombinant protein product features a stable and soluble fragment (residues 446-772) of human Transducin-like enhancer protein 3 (TLE3), a key transcriptional corepressor involved in Wnt signaling regulation. The fragment was computationally optimized for structural and biochemical studies, offering researchers a reliable tool for investigating TLE3's molecular mechanisms. Transducin-like enhancer protein 3 (TLE3), also known as Enhancer of split groucho-like protein 3 (ESG3), functions as a transcriptional corepressor that binds to various transcription factors. It plays a critical role in inhibiting transcriptional activation mediated by CTNNB1 and TCF family members within the Wnt signaling pathway. The activity of full-length TLE family members can be modulated by association with dominant-negative AES. TLE3 is localized to the nucleus, where it exerts its regulatory functions. This protein is essential for understanding transcriptional repression mechanisms and Wnt signaling dynamics in cellular processes.