Recombinant TLE2 protein (His tag)

Catalog Number	537962
Synonyms	Enhancer of split groucho-like protein 2; ESG2
Species	Human
Expression System	E. coli
Accession	Q04725
Molecular Weight	Predictes a molecular mass of 37.34 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 37 kDa band.

Product Information

Sequence Region	417-743
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>89%, 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 417-743 aa (Q04725) 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	Recombinant Human TLE2 (Transducin-like enhancer protein 2) Fragment (residues 417-743) is a high-purity protein designed for structural and biochemical studies. This 327-amino acid fragment was computationally selected to ensure stability and solubility, making it an ideal tool for investigating Wnt signaling pathways and transcriptional regulation. Transducin-like enhancer protein 2 (TLE2), also known as Enhancer of split groucho-like protein 2 (ESG2), functions as a transcriptional corepressor that binds to multiple 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 may be modulated by association with dominant-negative AES. TLE2 is localized to the nucleus, where it exerts its regulatory effects on gene expression.