Recombinant TLE5 protein (His tag)

Catalog Number	544863
Synonyms	Amino-terminal enhancer of split; Amino enhancer of split; Gp130-associated protein GAM; Grg-5; Groucho-related protein 5; Protein ESP1; Protein GRG; TLE family member 5, transcriptional modulator
Species	Human
Expression System	E. coli
Accession	Q08117
Molecular Weight	Predictes a molecular mass of 16.92 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 17 kDa band.

Product Information

Sequence Region	1-131
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>86%, 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 1-131 aa (Q08117) 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 TLE5 (1-131) is a high-purity protein fragment derived from the TLE family member 5, a transcriptional corepressor. This fragment is engineered for stability and solubility, making it ideal for structural studies, biochemical assays, and functional investigations into transcriptional regulation. TLE5 (TLE family member 5) is a transcriptional corepressor that acts as a dominant repressor toward other TLE family members and inhibits NF-kappa-B-regulated gene expression. It plays a critical role in cellular differentiation and is essential for the transcriptional repressor activity of SIX3 during retina and lens development. The protein is localized to the nucleus, where it modulates gene expression and contributes to developmental processes. This recombinant fragment (amino acids 1-131) represents a stable, soluble unit selected for experimental applications, enabling focused studies on TLE5's core functional properties.