Recombinant TM219 protein (His tag)

Catalog Number	549564
Synonyms	IGFBP-3R; Transmembrane protein 219
Species	Human
Expression System	E. coli
Accession	Q86XT9
Molecular Weight	Predictes a molecular mass of 14.73 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 15 kDa band.

Product Information

Sequence Region	39-160
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>85%, 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 39-160 aa (Q86XT9) 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 Insulin-like growth factor-binding protein 3 receptor (IGFBP-3R), also known as Transmembrane protein 219 (TMEM219), fragment 39-160. This 122-amino acid fragment is a stable, soluble unit ideal for investigating IGFBP-3R's role in apoptosis and its interactions in cellular signaling pathways. The full-length Insulin-like growth factor-binding protein 3 receptor (IGFBP-3R), encoded by the TMEM219 gene in Homo sapiens, functions as a cell death receptor specific for IGFBP3. Upon ligand binding, it mediates caspase-8-dependent apoptosis, highlighting its critical role in programmed cell death mechanisms. The protein is localized to the cell membrane as a single-pass transmembrane protein, positioning it to effectively transduce extracellular signals into intracellular apoptotic responses, with implications for understanding cancer and other diseases involving dysregulated cell survival.