Recombinant TMIG3 protein (His tag)

Catalog Number	542091
Species	Human
Expression System	E. coli
Accession	P0DMS9
Molecular Weight	Predictes a molecular mass of 17.43 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 17 kDa band.

Product Information

Sequence Region	76-212
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 76-212 aa (P0DMS9) 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 TMIGD3 (76-212) Fragment is a high-purity, soluble protein derived from the Transmembrane domain-containing protein TMIGD3. This fragment, spanning residues 76-212, is engineered for structural and biochemical studies, offering a stable tool to investigate the protein's role in suppressing osteosarcoma malignancy. The full-length Transmembrane domain-containing protein TMIGD3 (UniProt ID: P0DMS9) is a multi-pass membrane protein localized to the membrane in human cells. It functions as a suppressor of osteosarcoma malignancy by inhibiting NF-kappa-B activity, as demonstrated in scientific studies (PubMed:27886186). This recombinant fragment (76-212) was computationally designed to represent a stable and soluble region, enabling researchers to explore its structural properties and mechanisms without the challenges of full-length membrane protein expression.