Recombinant TJAP1 protein (His tag)

Catalog Number	542822
Synonyms	Protein incorporated later into tight junctions; Tight junction protein 4
Species	Human
Expression System	E. coli
Accession	Q5JTD0
Molecular Weight	Predictes a molecular mass of 24.53 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 27 kDa band.

Product Information

Sequence Region	37-234
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 37-234 aa (Q5JTD0) 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 TJAP1 Fragment (37-234) – a highly stable and soluble protein fragment derived from Tight junction-associated protein 1, optimized for structural and biochemical studies of Golgi apparatus regulation and tight junction maturation. Tight junction-associated protein 1 (TJAP1), also known as Tight junction protein 4, plays a critical role in regulating the structure of the Golgi apparatus. It is localized to the Golgi apparatus, trans-Golgi network, and cell membrane as a peripheral membrane protein, and is specifically recruited to tight junctions during the late stages of their maturation, while being excluded from adherens junctions and desmosomes. This protein is essential for understanding cellular organization and junctional dynamics in human biology.