Recombinant VP37D protein (His tag)

Catalog Number	540656
Synonyms	ESCRT-I complex subunit VPS37D; Williams-Beuren syndrome chromosomal region 24 protein
Species	Human
Expression System	E. coli
Accession	Q86XT2
Molecular Weight	Predictes a molecular mass of 22.34 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 24 kDa band.

Product Information

Sequence Region	1-180
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>88%, 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 1-180 aa (Q86XT2) 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	This product is a recombinant fragment (amino acids 1-180) of the human Vacuolar protein sorting-associated protein 37D (VPS37D), a key component of the ESCRT-I complex. The fragment is designed for stability and solubility, making it ideal for structural studies and biochemical assays related to vesicular trafficking. The full-length VPS37D protein is a subunit of the ESCRT-I complex, which plays a critical role in regulating vesicular trafficking processes, including the sorting of endocytic ubiquitinated cargos into multivesicular bodies. It is localized to the late endosome membrane as a peripheral membrane protein and may contribute to cell growth and differentiation. This protein is also referred to as the Williams-Beuren syndrome chromosomal region 24 protein, underscoring its potential relevance in genetic and cellular research.