Recombinant MT21D protein (His tag)

Catalog Number	548260
Synonyms	Methyltransferase-like protein 21D; VCP lysine methyltransferase; VCP-KMT; Valosin-containing protein lysine methyltransferase
Species	Human
Expression System	E. coli
Accession	Q9H867
Molecular Weight	Predictes a molecular mass of 27.33 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 30 kDa band.

Product Information

Sequence Region	2-229
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 2-229 aa (Q9H867) 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 recombinant protein represents a stable and soluble fragment (residues 2-229) of human Protein N-lysine methyltransferase METTL21D, also known as VCP lysine methyltransferase (VCP-KMT). It is designed for structural and biochemical studies, enabling researchers to investigate the enzyme's methyltransferase activity and its role in modifying VCP/p97. Protein N-lysine methyltransferase METTL21D is a human enzyme that specifically trimethylates 'Lys-315' of VCP/p97, a modification which may reduce VCP ATPase activity. This regulatory function highlights its potential role in modulating VCP-dependent cellular processes. The protein is localized in the cytoplasm, as confirmed by experimental evidence, underscoring its involvement in cytoplasmic signaling or metabolic pathways.