Recombinant EFMT2 protein (His tag)

Catalog Number	547417
Synonyms	Methyltransferase-like protein 10; Protein-lysine N-methyltransferase METTL10
Species	Human
Expression System	E. coli
Accession	Q5JPI9
Molecular Weight	Predictes a molecular mass of 27.43 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 28 kDa band.

Product Information

Sequence Region	2-236
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>89%, 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 2-236 aa (Q5JPI9) 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 EEF1A lysine methyltransferase 2 (METTL10) fragment (residues 2-236), a highly purified protein designed for studying lysine methylation mechanisms. This stable, soluble fragment retains key functional regions, enabling robust structural and biochemical investigations into eukaryotic translation elongation factor regulation. EEF1A lysine methyltransferase 2 (METTL10) is a protein-lysine methyltransferase that specifically catalyzes the trimethylation of EEF1A at Lys-318, playing a critical role in post-translational regulation of eukaryotic translation elongation. Located in both the cytoplasm and nucleus, this enzyme contributes to fundamental cellular processes through targeted methylation. The recombinant fragment (residues 2-236) encompasses the core functional domain, providing an optimal tool for exploring methylation-dependent regulatory pathways in human systems.