Recombinant METL5 protein (His tag)

Catalog Number	534603
Synonyms	6; Methyltransferase-like protein 5
Species	Drosophila melanogaster
Expression System	E. coli
Accession	Q8MSW4
Gene ID	40096
Molecular Weight	Predictes a molecular mass of 25.63 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 27 kDa band.

Product Information

Sequence Region	1-213
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>87%, 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 1-213 aa (Q8MSW4) 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 of the Drosophila melanogaster rRNA N(6)-adenosine-methyltransferase Mettl5 (EC 2.1.1.-), covering amino acids 1-213. It represents a stable and soluble unit ideal for structural and biochemical studies, enabling researchers to investigate its role in catalyzing adenine methylation in 18S rRNA. The full-length Mettl5 protein functions as the catalytic subunit of a heterodimer with Trmt112, specifically methylating the 6th position of adenine in 18S rRNA. This methylation activity is critical for ribosomal function and gene expression regulation. Mettl5 is localized in the cytoplasm, where it participates in RNA modification processes essential for cellular homeostasis. The provided fragment encompasses the complete functional domain, facilitating targeted analysis of its methyltransferase mechanisms.