Recombinant NSUN7 protein (His tag)

Catalog Number	550459
Synonyms	NOL1/NOP2/Sun domain family member 7
Species	Human
Expression System	E. coli
Accession	Q8NE18
Molecular Weight	Predictes a molecular mass of 57.64 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 59 kDa band.

Product Information

Sequence Region	39-530
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 39-530 aa (Q8NE18) 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 NSUN7 protein fragment (residues 39-530) is a high-purity, stable preparation of the putative methyltransferase NSUN7, designed for structural and biochemical studies. This 492-amino acid fragment retains key functional regions, offering researchers a reliable tool to investigate S-adenosyl-L-methionine-dependent methyltransferase activity in vitro. The full-length NSUN7 protein is a member of the NOL1/NOP2/Sun domain family and is implicated in S-adenosyl-L-methionine-dependent methyltransferase activity, though its specific biological targets and pathways remain under investigation. Methyltransferases like NSUN7 play critical roles in epigenetic regulation, RNA modification, and cellular signaling, making this protein relevant to studies in gene expression, development, and disease mechanisms. The selected fragment (39-530) was computationally optimized for solubility and stability, enabling detailed analysis of its structural and catalytic properties without the challenges associated with full-length protein expression.