Recombinant ANM8 protein (His tag)

Catalog Number	548339
Synonyms	Heterogeneous nuclear ribonucleoprotein methyltransferase-like protein 4
Species	Human
Expression System	E. coli
Accession	Q9NR22
Molecular Weight	Predictes a molecular mass of 38.53 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 41 kDa band.

Product Information

Sequence Region	77-394
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 77-394 aa (Q9NR22) 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 PRMT8 (Protein arginine N-methyltransferase 8) fragment (residues 77-394) is a high-purity, stable protein designed for structural and biochemical studies. This 318-amino acid fragment retains key functional regions, making it an ideal tool for investigating arginine methylation mechanisms and enzyme activity in vitro. Protein arginine N-methyltransferase 8 (PRMT8) is a membrane-associated, S-adenosyl-L-methionine-dependent enzyme that catalyzes the formation of omega-N monomethylarginine (MMA) and asymmetrical dimethylarginine (aDMA) on substrate proteins, including NIFK, myelin basic protein, histones H4 and H2A, and the H2A/H2B dimer. It also methylates EWS protein, though its precise regulatory role remains under investigation. PRMT8 is localized to the cytoplasmic side of the cell membrane via lipid anchoring, highlighting its unique role in membrane-proximal signaling and epigenetic regulation. This recombinant fragment provides a soluble, functional unit for exploring PRMT8's methyltransferase activity and substrate interactions.