Recombinant ANKMT protein (His tag)

Catalog Number	545792
Synonyms	ANT-KMT
Species	Human
Expression System	E. coli
Accession	Q9BQD7
Molecular Weight	Predictes a molecular mass of 19.19 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 19 kDa band.

Product Information

Sequence Region	43-201
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 43-201 aa (Q9BQD7) 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 product features a stable and soluble fragment (residues 43-201) of human Adenine nucleotide translocase lysine N-methyltransferase (ANT-KMT), a key mitochondrial enzyme involved in regulating cellular energy metabolism. This fragment has been computationally optimized for structural and biochemical studies, offering researchers a reliable tool for investigating mitochondrial protein methylation mechanisms. Adenine nucleotide translocase lysine N-methyltransferase (ANT-KMT) is a mitochondrial membrane protein that functions as a protein-lysine N-methyltransferase specifically targeting adenine nucleotide translocases ANT2/SLC25A5 and ANT3/SLC25A6. Through its trimethylation activity, ANT-KMT plays a crucial regulatory role in mitochondrial respiration, directly influencing cellular energy production. Located in the mitochondrial membrane as a single-pass membrane protein, this enzyme represents an important component of the mitochondrial regulatory machinery, with implications for understanding cellular metabolism and energy homeostasis.