Recombinant NDUS5 protein (His tag)

Catalog Number	541802
Synonyms	Complex I-15 kDa; CI-15 kDa; NADH-ubiquinone oxidoreductase 15 kDa subunit
Species	Human
Expression System	E. coli
Accession	O43920
Molecular Weight	Predictes a molecular mass of 14.17 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 15 kDa band.

Product Information

Sequence Region	1-106
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>86%, 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 1-106 aa (O43920) 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 NDUFS5 (1-106) Fragment is a high-purity protein encompassing the full CHCH domain of the NADH dehydrogenase [ubiquinone] iron-sulfur protein 5. This 15 kDa accessory subunit of mitochondrial Complex I is essential for studying domain-specific functions in electron transport chain mechanisms. The full-length NDUFS5 protein is an accessory subunit of mitochondrial membrane respiratory chain NADH dehydrogenase (Complex I), which facilitates electron transfer from NADH to ubiquinone in the respiratory chain. While not directly involved in catalysis, it plays a structural or regulatory role in Complex I assembly or function. The protein localizes to the mitochondrial inner membrane as a peripheral membrane protein and is also present in the mitochondrial intermembrane space, positioning it at critical sites for cellular energy production and oxidative phosphorylation processes.