

Recombinant Chicken NADH-Ubiquinone Oxidoreductase Chain 1 (MT-ND1)

Cat. No.: AP2C502

Product Type: Animal Proteins

Size: 20 µg; 100 µg; 1 mg

Product Overview

BioVenic's Recombinant Chicken NADH-Ubiquinone Oxidoreductase Chain 1 (MT-ND1) is a recombinant protein expressed from *E.coli*. Its predicted molecular weight is 36.1 kDa. The purity is >85% (SDS-PAGE).

Specifications

Type	Recombinant Protein
Species	Chicken
Expression System	<i>E.coli</i>
Purity	>85% (SDS-PAGE)
Predicted Molecular Weight	36.1 kDa
Physical State	Lyophilized
Formulation	Tris/PBS-based buffer, 5%-50% glycerol.

Target Information

Chicken NADH-Ubiquinone Oxidoreductase Chain 1 (MT-ND1) is a key subunit of mitochondrial complex I, driving electron transfer from NADH to ubiquinone and contributing to ATP synthesis. It's crucial for cellular energy production in chickens, particularly in tissues with high metabolic demands like muscles. Efficient function of MT-ND1 ensures optimal growth, meat quality, and overall health. Researchers study MT-ND1 to enhance poultry energy metabolism, potentially improving feed efficiency and productivity. Mutations here can cause mitochondrial diseases, so understanding MT-ND1 helps in developing diagnostic tools and management strategies for such conditions.

Protein	Chicken NADH-Ubiquinone Oxidoreductase Chain 1 (MT-ND1)
Protein Synonym	NADH dehydrogenase subunit 1
UniProt ID	P18936

Shipping and Storage

This product is shipped with ice packs. Lyophilized protein can be stored at -20°C for 1 year. After reconstitution, the protein solution can be stored at 2-8°C for 2-7 days.

User Note

Always centrifuge tubes before opening. Avoid mixing by vortexing or pipetting. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. Aliquot the reconstituted solution to minimize freeze-thaw cycles.

The product is for research use only. Not for commercial, prophylactic, diagnostic, or therapeutic applications. Please determine the purpose of the product before purchasing. For further information and inquiry, please contact us.