Recombinant Human CISD1 Protein

Catalog No.: RP02993

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Sequence Information

Species
Human

Gene ID
55847

Swiss Prot
Q9NZ45

Tags
N-His

Synonyms
C10orf70; MDS029; mitoNEET; ZCD1

Product Information

Source
E. coli

Purification
≥ 90 % as determined by SDS-PAGE.

Calculated MW
11.3 kDa

Observed MW
14 kDa

Endotoxin
Please contact us for more information.

Formulation
Lyophilized from a 0.22 μm filtered solution of 20 mM Tris, 150 mM NaCl, 10 % glycerol.

Reconstitution
Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Background

Mitochondrial dysfunction is thought to play a significant role in neurodegeneration observed in Parkinson's disease (PD), the loss of mitoNEET (CISD1), an iron-sulfur containing protein that regulates mitochondrial bioenergetics, results in mitochondrial dysfunction and loss of striatal dopamine and tyrosine hydroxylase. CDGSH iron sulfur domain 1 (CISD1, also termed mitoNEET), an iron-containing outer mitochondrial membrane protein, negatively regulates ferroptotic cancer cell death. At the cellular level, CISD1 gene expression increased during human adipocyte differentiation in correlation with adipogenic genes.Thus it is a possible role of CISD1 in obesity-associated dysfunctional adipogenesis in human VAT.

Basic Information

Description
Recombinant Human CISD1 Protein is produced by *E. coli* expression system. The target protein is expressed with sequence (Lys32-Thr108) of human CISD1 (Accession #NP_060934.1) fused with a 6×His tag at the N-terminus.

Activity

Shipping
Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage
Store at -20℃

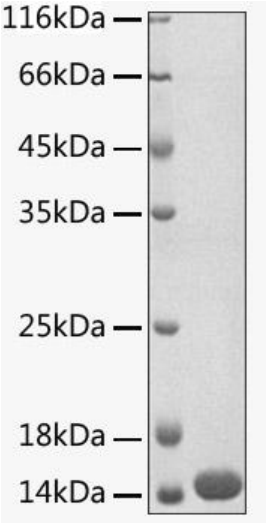
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

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Validation Data



Recombinant Human CISD1 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.