

**Catalog No.: RP02993** **Recombinant**

Species	Gene ID	Swiss Prot
Human	55847	O9NZ45

## N-His

C10orf70; MDS029; mitoNEET; ZCD1

<b>Source</b>	<b>Purification</b>
<i>E. coli</i>	≥ 90 % as determined by SDS-PAGE.

## 11.3 kDa 14 kDa

Please contact us for more information.

Lyophilized from a 0.22  $\mu\text{m}$  filtered solution of 20 mM Tris, 150 mM NaCl, 10 % glycerol.

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 stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

 | 400-999-6126

✉ | [cn.market@abclonal.com.cn](mailto:cn.market@abclonal.com.cn)

 | [www.abclonal.com.cn](http://www.abclonal.com.cn)

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.

Recombinant Human C1SD1 Protein is produced by *E. coli* expression system. The target protein is expressed with sequence (Lys32-Thr108) of human C1SD1 (Accession #NP\_060934.1) fused with a 6xHis tag at the N-terminus.

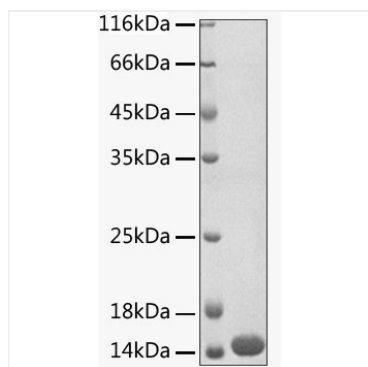
Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

## Validation Data

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