

Recombinant human CDO1 protein

Catalog Number: ATGP0393

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-170aa

UniProt No.

Q16878

NCBI Accession No.

AAH_24241

Alternative Names

CDO, CDO 1, CDO I, Cysteine dioxygenase type 1, Cytosolic cysteine dioxygenase

PRODUCT SPECIFICATION

Molecular Weight

23.9 kDa (207aa) confirmed by MALDI-TOF

Concentration

1mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 1mM DTT

Purity

> 90% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

Cysteine dioxygenase (CDO1) is a mammalian non-heme iron enzyme that initiates several important metabolic pathways related to pyruvate and several sulfurate compounds including sulfate, hypotaurine and taurine. This protein catalyzes the conversion of L-cysteine to cysteine sulfinic acid (cysteine sulfinate) by incorporation of dioxygen. CDO1 is critical regulator of cellular cysteine concentrations and has an important role in maintaining the hepatic concentration of intracellular free cysteine within a proper narrow range. Recombinant CDO1 protein was expressed in E. coli and purified by using conventional chromatography techniques.

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Amino acid Sequence

MRGSHHHHHH GMASMTGGGQ MGRDLYDDDD KDRWGSMEQ TEVLKPRTLA DLIRILHQLF AGDEVNVEEV
QAIMEAYESD PTEWAMYAKF DQYRYTRNLV DQGNGKFNLM ILCWGEGHGS SIHDHTNSHC FLKMLQGNLK ETLFAWPDKK
SNEMVKKSER VLRENQCAIY NDSVGLHRVE NISHTEPAVS LHLYSPPFD T CHAFDQR

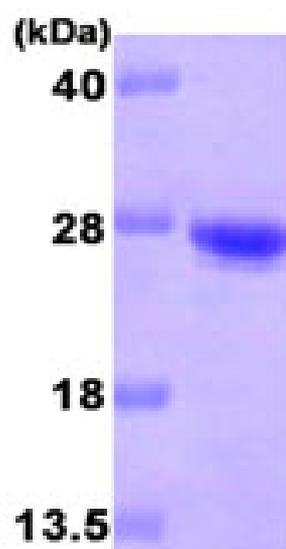
General References

Sakakibara S., et al. (1976) *Biochim Biophys Acta*. 422(2):273-9.

Ramsden DB., et al. (1997) *Mol Pathol*. 50(5):269-71.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

15% SDS-PAGE (3ug)