

## CDO1 Protein, Human, Recombinant (His)

### General Information

Synonyms:	CDO-I;CDO;Cysteine Dioxygenase Type I;CDO1;Cysteine Dioxygenase Type 1
Protein Construction:	Met1-Asn200
Species:	Human
Expression Host:	E. coli
Accession:	Q16878
Molecular Weight:	20-28 KDa (reducing condition)
AA Sequence:	Met1-Asn200

### QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	Greater than 95% as determined by reducing SDS-PAGE. (QC verified)
Endotoxin:	< 0.1 ng/μg (1 EU/μg) as determined by LAL test.
Formulation:	Supplied as a 0.2 μm filtered solution of 20 mM Tris-HCl, 1 mM DTT, 10% Glycerol, pH 8.0.

### Preparation and Storage

#### Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

#### Shipping:

Proteins are shipped with blue ice.

### Protein Background

Cysteine Dioxygenase Type 1 (CDO1) is a mammalian non-heme iron enzyme that belongs to the cysteine dioxygenase family. CDO1 is highly expressed in the liver and placenta, and has a low expression in heart, brain and pancreas. CDO1 can also be detected in hepatoblastoma HepG2 cells. CDO1 catalyzes the conversion of L-cysteine to cysteine sulfinic acid by incorporation of dioxygen. CDO1 is a vital regulator of cellular cysteine concentrations and has an essential role in maintaining the hepatic concentration of intracellular free cysteine within a proper narrow range. CDO1 is able to alter intracellular cysteine levels and glutathione levels.

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Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481