

## 32-8044: Recombinant Human Cysteine Dioxygenase Type 1/CDO1 (N-6His)(Discontinued)

**Gene :** CD01  
**Gene ID :** 1036  
**Uniprot ID :** Q16878

### Description

Source: E.coli.  
MW :25.1kD.

Recombinant Human CD01 is produced by our E.coli expression system and the target gene encoding Met1-Asn200 is expressed with a 6His tag at the N-terminus. Cysteine Dioxygenase Type 1 (CDO1) is a mammalian non-heme iron enzyme that belongs to the cysteine dioxygenase family. CD01 is highly expressed in the liver and placenta, and has a low expression in heart, brain and pancreas. CD01 can also be detected in hepatoblastoma HepG2 cells. CD01 catalyzes the conversion of L-cysteine to cysteine sulfinic acid by incorporation of dioxygen. CD01 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. CD01 is able to alter intracellular cysteine levels and glutathione levels.

### Product Info

**Amount :** 10 µg / 50 µg  
**Content :** Supplied as a 0.2 µm filtered solution of 20mM TrisHCl, 1mM DTT, 10% Glycerol, pH 8.0.  
**Storage condition :** Store at -20°C, stable for 6 months after receipt. Please minimize freeze-thaw cycles.  
**Amino Acid :** MGSSHHHHHSSGLVPRGSHMEQTEVLKPRTLADLIRILHQLFAGDEVNVEEVQAIMEAYESDPTWAMYAKF  
DQYRYTRNLVDQGNGKFNLMILCWGEGHGSSIHDTNSHCFLKMLQGNLKETLFAWPKKSNEMVKKSERVL  
RENQCAYINDSVGLHRVENISHTEPAVSLHLYSPPFDTCHAFDQRTGHKNKVTMTFHSKFGIRTPNATSGSLEN  
N

### Application Note

**Endotoxin :** Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test.