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32-2216: CDO1 Recombinant Protein

Alternative Name : Cysteine dioxygenase type 1,Cysteine dioxygenase type I,CDO-I,CDO,CDO1.

Description

Source : Escherichia Coli. CDO1 Human Recombinant fused with 37 amino acid His tag at N-terminus produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 207 amino acids (1-170 a.a.) and having a molecular mass of 23.9kDa.The CDO1 is purified by proprietary chromatographic techniques. CDO1 (Cysteine dioxygenase) is a mammalian non-heme iron enzyme that initiates a number of significant metabolic pathways associated with pyruvate and several sulfurate compounds including sulfate, hypotaurine and taurine. CDO1 catalyzes the conversion of L-cysteine to cysteine sulfinic acid (cysteine sulfinate) 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. CDO1 is highly expressed in the liver and placenta. On the other hand CDO1 has a low expression in heart, brain and pancreas. CDO1 can also be detected in hepatoblastoma HepG2 cells.

Product Info

Amount :	50 µg
Purification :	Greater than 90.0% as determined by SDS-PAGE.
Content :	The CDO1 solution contains 20mM Tris buffer(pH 8.0), 10% glycerol and 1mM DTT.
Storage condition :	CDO1 although stable 4°C for 4 weeks, should be stored desiccated below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.
Amino Acid :	MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSHMEQ TEVLKPRTLA DLIRILHQLF AGDEVNVEEV QAIMEAYESD PTEWAMYAKF DQYRYTRNLV DQGNGKFNLM ILCWGEGHGS SIHDHTNSHC FLKMLQGNLK ETLFAWPDKK SNEMVKKSER VLRENQCAYI NDSVGLHRVE NISHTEPAVS LHLYSPPFDT CHAFDQR.

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