



Recombinant Protein Technical Manual

Recombinant Human CDO1 Protein (His Tag)

RPES1839

Product Data:

Product SKU: RPES1839

Size: 10µg

Species: Human

Expression host: E. coli

Uniprot: Q16878

Protein Information:

Molecular Mass: 25.1 kDa

AP Molecular Mass: 25 kDa

Tag: N-6His

Bio-activity:

Purity: > 95 % as determined by reducing SDS-PAGE.

Endotoxin: < 1.0 EU per µg as determined by the LAL method.

Storage: Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.

Shipping: This product is provided as liquid. It is shipped at frozen temperature with blue ice/gel packs. Upon receipt, store it immediately at < -20°C.

Formulation: Supplied as a 0.2 µm filtered solution of 20mM TrisHCl, 1mM DTT, 10% Glycerol, pH 8.0.

Reconstitution: Please refer to the printed manual for detailed information.

Application:

Synonyms: Cysteine Dioxygenase Type 1; Cysteine Dioxygenase Type I; CDO; CDO-I; CDO1

Immunogen Information:

Sequence: Met 1-Asn200

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.