Recombinant Human Carbonyl Reductase 1

Cat. No. CBR1-142H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human CBR1 protein was expressed in E.coli and purified by using conventional chromatography, 30 kDa (277aa).
Species	Human
Source	E.coli
Description	CBR1(Carbonyl reductase 1) is one of several monomericNADPH-dependentoxidoreductaseshaving wide specificity for carbonyl compounds. CBR1 is widely distributed in human tissues. CBR1 metabolizes many toxic environmentalquinonesand pharmacological relevant substrates such as the anticancerdoxorubicin. CBR1 can also convert prostaglandin E2 to prostaglandin F2-alpha.
Sequences of amino acids	MSSGIHVALV TGGNKGIGLA IVRDLCRLFS GDVVLTARDV TRGQAAVQQL QAEGLSPRFH QLDIDDLQSI RALRDFLRKE YGGLDVLVNN AGIAFKVADP TPFHIQAEVT MKTNFFGTRD VCTELLPLIK PQGRVVNVSS IMSVRALKSC SPELQQKFRS ETITEEELVG LMNKFVEDTK KGVHQKEGWP SSAYGVTKIG VTVLSRIHAR KLSEQRKGDK ILLNACCPGW VRTDMAGPKA TKSPEEGAET PVYLALLPPD AEGPHGQFVS EKRVEQW
Purity	> 95% by SDS - PAGE
Form	Liquid. In 20 mM Tris-HCl buffer (pH 8.5) containing 10% glycerol
Concentration	1 mg/ml (determined by Bradford assay)

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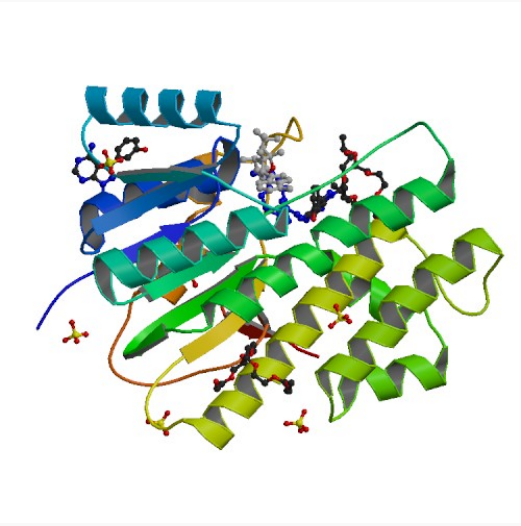
Storage	Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

GENE INFORMATION

Gene Name	CBR1 carbonyl reductase 1 [Homo sapiens]
Synonyms	CBR1; CBR; hCBR1; SDR21C1; CBR1; CRN; carbonyl reductase (NADPH) 1, EC 1.1.1.184; carbonyl reductase 1; carbonyl reductase (NADPH) 1; prostaglandin 9-ketoreductase; prostaglandin-E(2) 9-reductase; short chain dehydrogenase/reductase family 21C, member 1; EC 1.1.1.184; EC 1.1.1.189; EC 1.1.1.197; NADPH-dependent carbonyl reductase 1; 15-hydroxyprostaglandin dehydrogenase [NADP+].
Gene ID	873
mRNA Refseq	NM_001757
Protein Refseq	NP_001748
MIM	114830
UniProt ID	P16152
Chromosome Location	21q22.13
Pathway	Arachidonic acid metabolism
Function	15-hydroxyprostaglandin dehydrogenase (NADP+) activity; carbonyl reductase (NADPH) activity; oxidoreductase activity; prostaglandin-E2 9-reductase activity; protein binding

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PDBrendering based on 1wma. Available structures:1wma



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