

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 monomeric NADPH-dependent oxidoreductases having wide specificity for carbonyl compounds. CBR1 is widely distributed in human tissues. CBR1 metabolizes many toxic environmental quinones and pharmacological relevant substrates such as the anticancer doxorubicin . CBR1 can also convert prostaglandin E2 to prostaglandin F2-alpha.
Sequences of amino acids	MSSGIHVALV TGGNKGIGLA IVRDLCRLFS GDVLTARDV TRGQAAVQQL QAEGLSPRFH QLDIDDLQSI RALRDFLRKE YGGLDVLVNN AGIAFKVADP TPFHIQAEVT MKTNFFGTRD VCTELLPLIK PQGRVNVVSS IMSVRALKSC SPELQQKFERS 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

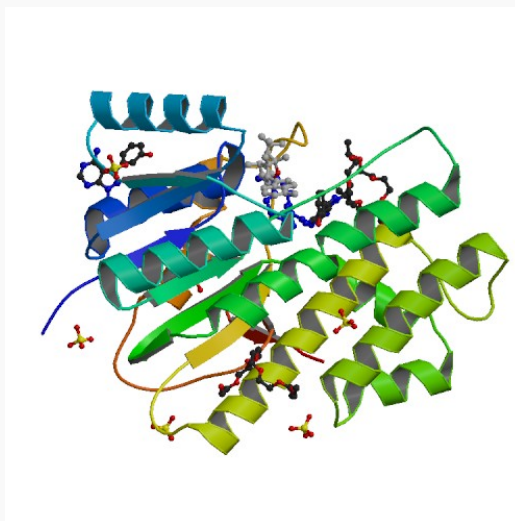
15-hydroxyprostaglandin dehydrogenase (NADP+) activity; carbonyl reductase (NADPH) activity; oxidoreductase activity; prostaglandin-E2 9-reductase activity; protein binding

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PDBrendering based
on 1wma. Available
structures:1wma



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