

Recombinant Human Carbonyl Reductase 3, His-tagged

Cat. No. CBR3-184H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human CBR3, fused to His-tag at N-terminus, was expressed in <i>E.coli</i> and purified by using conventional chromatography. MW =33 kDa (297aa).
Species	Human
Source	E.coli
Description	Carbonyl reductase 3(CBR3) is one of several monomeric NADPH-dependent oxidoreductases. This protein catalyzes the reduction of a large number of biologically and pharmacologically active carbonyl compounds to their corresponding alcohols. It also contains three exons spanning 11.2 kilobases and is closely linked to another carbonyl reductase gene – CBR1. Some studies suggest that it mediates 9-cis-retinoic acid-induced cytostasis and is a potential prognostic marker for oral malignancy.
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MSSCSRVALV TGANRGIGLA IARELCRQFS GDVLTARDV ARGQAAVQQL QAEGLSPRFH QLDIDDLQSI RALRDFLRKE YGGLNVLVNN AAVAFKSDDP MPFDIKAEMT LKTNFFATR NMCNELLPIMK PHGRVNNISS LQCLRAFENC SEDLQERFHS ETLTEGDLVD LMKKFVEDTK NEVHEREGWP NSPYGVSKLG VTVLSRILAR RLDEKRRKADR ILVNACCPGP VKTDMDGKDS IRTVEEGAET PVYLALLPPD ATEPQGQLVH DKVVQNW
Form	Liquid. In 20 mM Tris-HCl buffer (pH 8.0) containing 10% glycerol.
Purity	> 95% by SDS – PAGE.

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Concentration	1 mg/ml (determined by Bradford assay).
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	CBR3 carbonyl reductase 3 [Homo sapiens]
Synonyms	CBR3; carbonyl reductase 3; hCBR3; SDR21C2; carbonyl reductase (NADPH) 3; NADPH-dependent carbonyl reductase 3; short chain dehydrogenase/reductase family 21C, member 2; EC 1.1.1.184; short chain dehydrogenase/reductase family 21C, member 2; SDR21C2; carbonyl reductase (NADPH) 3, EC 1.1.1.184
Gene ID	874
mRNA Refseq	NM_001236
Protein Refseq	NP_001227
MIM	603608
UniProt ID	O75828
Chromosome Location	21q22.2
Pathway	Arachidonic acid metabolism; Metabolic pathways
Function	NADPH binding; binding; carbonyl reductase (NADPH) activity; oxidoreductase activity

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