

# Recombinant human Carbonyl reductase 3/CBR3 protein

Catalog Number: ATGP0345

## PRODUCT INFORMATION

### Expression system

E.coli

### Domain

1-277aa

### UniProt No.

O75828

### NCBI Accession No.

NP\_001227

### Alternative Names

Carbonyl reductase 3, CBR3, NADPH-dependent carbonyl reductase, Carbonyl reductase (NADPH) 3, EC 1.1.1.184, hCBR3, Carbonyl reductase (NADPH) 3 EC 1.1.1.184, NADPH dependent carbonyl reductase 3, SDR21C2, Short chain dehydrogenase/reductase family 21C member 2.

## PRODUCT SPECIFICATION

### Molecular Weight

33 kDa (297aa) confirmed by MALDI-TOF

### Concentration

1mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol

### Purity

> 95% by SDS-PAGE

### Tag

His-Tag

### Application

SDS-PAGE

### Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

### 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

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cytostatis and is a potential prognostic marker for oral malignancy. Recombinant human CBR3, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography.

## Amino acid Sequence

MGSSHHHHHHH SSGLVPRGSH MSSCSRVALV TGANRGIGLA IARELCRQFS GDVVLTARDV ARGQAAVQQL QAEGLSPRFH  
QLDIDDLQSI RALRDFLRKE YGGLNVLVNN AAVAFKSDDP MPFDIKAEMT LKTNFFATR N MCNELLPIMK PHGRVVNISS  
LQCLRAFENC SEDLQERFHS ETLTEGDLVD LMKKFVEDTK NEVHEREGWP NSPYGVSKLG VTVLSRILAR RLDEK RKADR  
ILVNACCPGP VKTDMDGKDS IRTVEEGAET PVYLALLPPD ATEPQGQLVH DKVVQNW

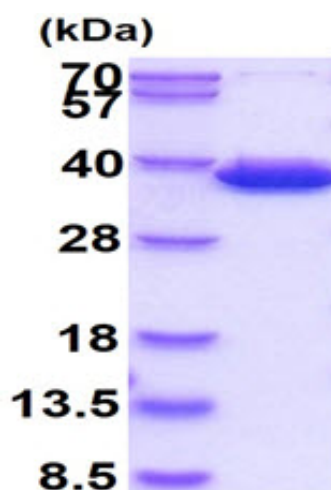
## General References

Ohkura-Hada S., et al. (2008). Open Dent J. 2:78-88.

Miura T., et al. (2009). Life Sci. 85(7-8):303-8.

## DATA

### SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

15% SDS-PAGE (3ug)