

## 32-2211: CBR3 Recombinant Protein

**Alternative Name :** Carbonyl reductase [NADPH] 3,NADPH-dependent carbonyl reductase 3,CBR3,carbonyl reductase 3,hCBR3,SDR21C2.

### Description

Source : Escherichia Coli. Recombinant Human CBR3 fused with a 20 amino acid His tag at N-terminus produced in E.Coli is a single, non-glycosylated polypeptide chain containing 297 amino acids (1-277 a.a) and having a molecular mass of 33kDa. CBR3 is purified by proprietary chromatographic techniques. CBR3 catalyzes the reduction of a large number of biologically and pharmacologically active carbonyl compounds to their corresponding alcohols. CBR3 is one of several monomeric NADPH-dependent oxidoreductases. Furthermore, CBR3 contains 3 exons spanning 11.2 kilobases and is strongly linked to another carbonyl reductase gene, the CBR1. It was suggested that CBR3 mediates 9-cis-retinoic acid-induced cytostatis and is a potential prognostic marker for oral malignancy.CBR3 is identified in the ovary, pancreas, intestine, colon, kidney, brain, thymus, lung, heart, liver, spleen, leukocyte, prostate and the testis.Polymorphisms in CBR3 may give an explanation to interindividual and interethnic variability of doxorubicin pharmacokinetics and pharmacodynamics.

### Product Info

**Amount :** 20 µg  
**Purification :** Greater than 95.0% as determined by analysis by SDS-PAGE.  
**Content :** The CBR3 protein contains 20mM Tris-HCl buffer (pH 8.0) and 10% glycerol.  
**Storage condition :** Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.  
**Amino Acid :** MGSSHHHHHH SSSLVPRGSH MSSCSRVALV TGANRGIGLA IARELCRQFS GDVVLTDV  
ARGQAAVQQL QAEGLSRPFH QLDIDDLQSI RALRDFLRKE YGGLNVLVNN AAVAFKSDDP MPFDIKAEMT  
LKTNFFATR NMCNELLPIMK PHGRVNVNLS LQCLRAFENC SEDLQERFHS ETLTEGDLVD LMKKFVEDTK  
NEVHEREGWP NSPYGVSKLG VTLVSRILAR RLDEKRRADR ILVNACCPGP VKTDMDGKDS IRTVEEGAET  
PVYLALLPPD ATEPQGQLVH DKVVQNW.

