

Product information



Carbonyl reductase 3, 1-277aa

Cat. No. IBATGP0345

Human, His-tagged, Recombinant, *E.coli*

Synonyms: CBR3, NADPH-dependent carbonyl reductase

NCBI Accession No.: NP_001227

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. Recombinant human CBR3, fused to His-tag at N-terminus, was expressed in *E.coli* and purified by using conventional chromatography.

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

Molecular Weight: 33 kDa (297aa)

Purity: > 95% by SDS - PAGE

Concentration: 1 mg/ml (determined by Bradford assay)

(kDa)

57

40

28

18

15% SDS-PAGE (3ug)

Sequences of amino acids:

MGSSHHHHHH SSSLVPRGSH MSSCSRVALV TGANRGIGLA IARELCRQFS GDVVL TARDV ARGQAAVQQL QAEGLSPRFH QLDIDDLQSI
RALRDFLRKE YGGLNVLVNN AAVAFKSDDP MPFDIKAEMT LKTNFFATR N MCNELLPI MK PHGRVNISS LQCLRAFENC SEDLQERFHS
ETLTEGDLVD LMKKFVEDTK NEVHEREGWP NSPYGVSKLG VTVLSRILAR RLDEKRKADR ILVNACCPGP VKTDMDGKDS IRTVEEGAET
PVYLALLPPD ATEPQGQLVH DKVVQNW

General references:

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

WARNING: THIS PRODUCT IS NOT INTENDED OR APPROVED FOR HUMAN, DIAGNOSTICS OR VETERINARY USE. USE OF THIS PRODUCT FOR HUMAN OR ANIMAL TESTING IS EXTREMELY HAZARDOUS AND MAY RESULT IN DISEASE, SEVERE INJURY, OR DEATH.

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

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.

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