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

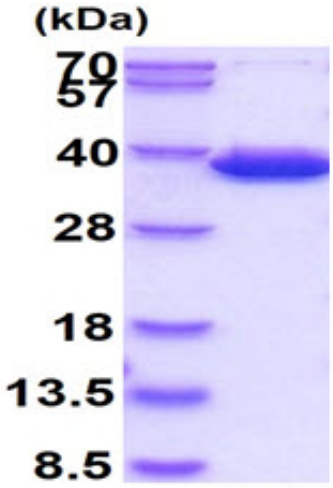
MGSSHHHHHH SSGLVPRGSH MSSCSRVALV TGANRGIGLA IARELCRQFS GDVVLTARDV ARGQAAVQQL QAEGLSPRFH QLDIDDLQSI RALRDFLRKE YGGLNVLVNN AAVAFKSDDP MPFDIKAEMT LKTNFFATRN MCNELLPIMK PHGRVVNISS LQCLRAFENC SEDLQERFHS ETLTEGDLVD LMKKFVEDTK NEVHEREGWP NSPYGVSKLG VTVLSRILAR RLDEKRKADR ILVNACCPGP VKTDMDGKDS IRTVEEGAET PVYLALLPPD ATEPQGQLVH DKVVQNW

General References

Ohkura-Hada S., et al. (2008). Open Dent J. 2:78-88.
Miura T., et al. (2009). Life Sci. 85(7-8):303-8.

DATA

SDS-PAGE



15% SDS-PAGE (3ug)

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