

Recombinant human Carbonyl reductase 1/CBR1 protein

Catalog Number: ATGP0311

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-277aa

UniProt No.

P16152

NCBI Accession No.

NP_001748

Alternative Names

Carbonyl reductase 1, Carbonyl reductase 1, CBR, hCBR1, SDR21C1, CBR1, Carbonyl reductase 1 15 hydroxyprostaglandin dehydrogenase [NADP+], Carbonyl reductase [NADPH] 1.CBR 1, CRN, NADPH dependent carbonyl reductase 1, Prostaglandin 9 ketoreductase, Prostaglandin E(2) 9 reductase.

PRODUCT SPECIFICATION

Molecular Weight

30 kDa (277aa) confirmed by MALDI-TOF

Concentration

1mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.5) containing 10% glycerol

Purity

> 95% by SDS-PAGE

Tag

Non-Tagged

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

CBR1 (Carbonyl reductase 1) is one of several monomeric NADPH-dependent oxidoreductases having wide specificity for carbonyl compounds. CBR1 is widely distributed in human tissues. CBR1 metabolizes many toxic environmental quinones and pharmacological relevant substrates such as the anticancer doxorubicin. CBR1 can also convert prostaglandin E2 to prostaglandin F2-alpha. Recombinant human CBR1 protein was expressed in E.

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coli and purified by using conventional chromatography.

Amino acid Sequence

MSSGIHVALV TGGNKGIGLA IVRDLCRLFS GDVVLTRADV TRGQAAVQQL QAEGLSPRFH QLDIDDLQSI RALRDFLRKE
YGGDLVLVNN AGIAFKVADP TPFHIQAEVT MKTNFFGTRD VCTELLPLIK PQGRVVNVSS IMSVRALKSC SPELQQKFRS
ETITEEELVG LMNKFVEDTK KGVHQKEGWP SSAYGVTKIG VTVLSRIHAR KLSEQRKGDK ILLNACCPGW VRTDMAGPKA
TKSPEEGAET PVYLALLPPD AEGPHGQFVS EKRVEQW

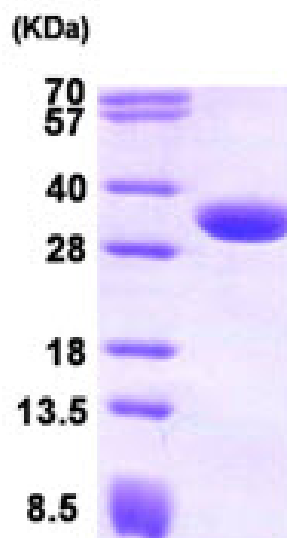
General References

Bateman RL., et al. (2008), J Biol Chem. 283(51):35756-62.

Plebuch M., et al. (2007). Cancer Lett. 255(1):49-56.

DATA

SDS-PAGE



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

15% SDS-PAGE (3ug)