

Recombinant human CBR4 protein

Catalog Number: ATGP0781

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-237aa

UniProt No.

Q8N4T8

NCBI Accession No.

AAH21973.1

Alternative Names

Carbonyl reductase family member 4, Carbonyl reductase family member 4, Quinone reductase CBR4, 3-oxoacyl-[acyl-carrier-protein] reductase

PRODUCT SPECIFICATION

Molecular Weight

27.5 kDa (257aa) confirmed by MALDI-TOF

Concentration

0.5mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 5mM DTT, 200mM NaCl

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

CBR4 belongs to the short-chain dehydrogenase/reductase family. The formation of heterotetramer with HSD17B8 has NADH-dependent 3-ketoacyl-acyl carrier protein reductase activity for o- and p-quinones. It plays a role in biosynthesis of fatty acids in mitochondria and has broad substrate specificity and reduces 9, 10-phenanthrenequinone, 1, 4-benzoquinone and various other o-quinones and p-quinones (in vitro). Recombinant human CBR4 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional

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chromatography techniques.

Amino acid Sequence

<MGSSHHHHHH SSGLVPRGSH> MDKVCVFGG SRGIGRAVAQ LMARKGYRLA VIARNLEGAK AAAGDLGGDH
LAFSCDVAKE HDVQNTFEEM EKHLGRVNFL VNAAGINRDG LLVRTKTEDM VSQ LHTNLLG SMLTCKAAMR TMIQQQGSI
VNVGSIVGLK GNSGQSVYSA SKGGLVGFSR ALAKEVARKK IRVNVVAPGF VHTDMTKDLK EEHLKKNIP L GRFGETIEVA
HAVVFLLESP YITGHVLVVD GGLQLIL

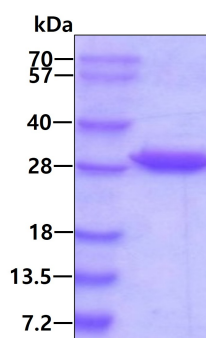
General References

Endo S., et al. (2008) Biochem Biophys Res Commun. 26
377(4):1326-30

Chen Z., et al. (2009) FASEB J. 23:3682-3691

DATA

SDS-PAGE



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