

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

Recombinant human CBR4 protein

Catalog Number: ATGP0781

chromatography techniques.

Amino acid Sequence

<MGSSHHHHHH SSGLVPRGSH> MDKVCAVFGG SRGIGRAVAQ LMARKGYRLA VIARNLEGAK AAAGDLGGDH
LAFSCDVAKE HDVQNTFEEM EKHLGRVNFL VNAAGINRDG LLVRTKTEDM VSQLHTNLLG SMLTCKAAMR TMIQQGGSI
VNVGSIVGLK GNSGQSVYSA SKGGLVGF SR ALAKEVARKK IRVNVVAPGF VHTDMTKDLK EEHLKKNIPL GRFGETIEVA
HAVVFLLESP YITGHVLVVD GGLQLIL

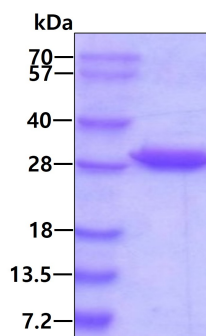
General References

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.