

Recombinant Human CBR4, His-tagged

Cat. No. CBR4-2876H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human CBR4 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Species	Human
Source	E.coli
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).
Sequence	MGSSHHHHHH SSGLVPRGSH MDKVCAVFGG SRGIGRAVAQ LMARKGYRLA VIARNLEGAK AAAGDLGGDH LAFSCDVAKE HDVQNTFEEM EKHLGRVNFL VNAAGINRDG LLVRTKTEDM VSQLHTNLLG SMLTCKAAMR TMIQQQGGS VNVGSIVGLK GNSGQSVYSA SKGGLVGFSR ALAKEVARKK IRVNVVAPGF VHTDMTKDLK EEHLKKNIP LGRFGETIEVA HAVVFLLESP YITGHVLVVD GGLQLIL.
Purity	> 95% by SDS – PAGE.
MW	27.5kDa (257aa) confirmed by MALDI-TOF.

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Form	Liquid. 20mM Tris-HCl buffer (pH8.0) containing 10% glycerol, 5mM DTT, 200mM NaCl.
Concentration	0.5mg/ml (determined by Bradford assay).
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.
GENE INFORMATION	
Gene Name	CBR4 carbonyl reductase 4 [Homo sapiens]
Synonyms	CBR4; carbonyl reductase 4; FLJ14431, SDR45C1; 3-oxoacyl-[acyl-carrier-protein] reductase; OTTHUMP00000219599; OTTHUMP00000219638; carbonic reductase 4; carbonyl reductase family member 4; quinone reductase CBR4; short chain dehydrogenase/reductase family 45C, member 1
Gene ID	84869
mRNA Refseq	NM_032783
Protein Refseq	NP_116172
UniProt ID	Q8N4T
Chromosome Location	4q32.3
Function	NADPH binding; NADPH dehydrogenase (quinone) activity; protein binding; quinone binding

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