

Product datasheet for **AR09720PU-N**

Carbonyl reductase 4 (1-237, His-tag) Human Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Carbonyl reductase 4 (1-237, His-tag) human recombinant protein, 50 µg
Species:	Human
Expression Host:	E. coli
Expression cDNA Clone or AA Sequence:	<u>MGSSHHHHHH SSGLVPRGSH</u> MDKVCVFGG SRGIGRAVAQ LMARKGYRLA VIARNLEGAK AAAGDLGGDH LAFSCDVAKE HDVQNTFEEM EKHLGRVNFL VNAAGINRDG LLVRTKTEDM VSQ LHTNLLG SMLTCKAAMR TMIQQQGGSI VNVGSIVGLK GNSGQSVYSA SKGGLVGFSR ALAKEVARKK IRVNVVAPGF VHTDMTKDLK EEHLKKNIP L GRFGETIEVA HAVVFLESP YITGHVLVVD GGLQLIL
Tag:	His-tag
Predicted MW:	27.5 kDa
Concentration:	lot specific
Purity:	>95%
Buffer:	Presentation State: Purified State: Liquid purified protein Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 5 mM DTT, 200 mM NaCl
Preparation:	Liquid purified protein
Protein Description:	Recombinant human CBR4 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Storage:	Store undiluted at 2-8°C for up to two weeks or (in aliquots) at -20°C or -70°C for longer. Avoid repeated freezing and thawing.
Stability:	Shelf life: one year from despatch.
RefSeq:	<u>NP_116172</u>
Locus ID:	84869
UniProt ID:	<u>Q8N4T8</u>
Cytogenetics:	4q32.3
Synonyms:	SDR45C1



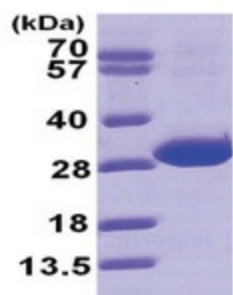
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Summary:

The heterotetramer with HSD17B8 has NADH-dependent 3-ketoacyl-acyl carrier protein reductase activity, and thereby plays a role in mitochondrial fatty acid biosynthesis (PubMed:19571038, PubMed:25203508). Within the heterotetramer, HSD17B8 binds NADH; CBR4 binds NADPD (PubMed:25203508). The homotetramer has NADPH-dependent quinone reductase activity (PubMed:19000905). Both homotetramer and the heterotetramer have broad substrate specificity and can reduce 9,10-phenanthrenequinone, 1,4-benzoquinone and various other o-quinones and p-quinones (in vitro) (PubMed:19000905, PubMed:19571038, PubMed:25203508).[UniProtKB/Swiss-Prot Function]

Protein Families:

Druggable Genome

Product images:

15% SDS-PAGE (3ug)