
Product Data Sheet

Product Name: CBR4 Human
 Cat. No.: GP21469
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Carbonyl reductase family member 4; 3-oxoacyl-[acyl-carrier-protein] reductase; Quinone reductase CBR4; CBR4; SDR45C1; FLJ14431.		
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MDKVCAVFGG SRGIGRAVAQ LMARKGYRLA VIARNLEGAK AAAGDLGGDH LAFSCDVAKE HDVQNTFEEM EKHLGRVNFL VNAAGINRDG LLVRTKTEDM VSQ LHTNLLG SMLTCKAAMR TMIQQQGGSI VNVGSIVGLK GNSGQSVYSA SKGGLVGF SR ALAKEVARKK IRVNVVAPGF VHTDMTKDLK EEHLKKNIPL GRFGETIEVA HAVVFLLESP YITGHVLVVD GGLQLIL.		
Formulation	The CBR4 solution (0.5 mg/ml) contains 20mM Tris-HCl buffer (pH8.0), 10% glycerol, 5mM DTT and 200mM NaCl.		

Introduction

CBR4 is a member of the short-chain dehydrogenase/reductase family. CBR4 has a role in biosynthesis of fatty acids in the mitochondria and a broad substrate specificity and reduces 9,10-phenanthrenequinone, 1,4-benzoquinone and a range of other o-quinones and p-quinones (in vitro). CBR4 formation of a heterotetramer with HSD17B8 has NADH-dependent 3-ketoacyl-acyl carrier protein reductase activity for o- and p-quinones.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

CBR4 Human Recombinant fused with a 20 amino acid His tag at N-terminus produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 257 amino acids (1-237

Caution: Product has not been fully validated for medical applications. For research use only.

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a.a.) and having a molecular mass of 27.5kDa. The CBR4 is purified by proprietary chromatographic techniques.

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