CBR1 Peptide - Middle Region Blocking Peptide

PRODUCT OVERVIEW

Product Name	CBR1, Blocking Peptide
Full Product Name	CBR1 Peptide - middle region
Product Gene Name	CBR1 blocking peptide
Product Synonym Gene Name	CBR; hCBR1; SDR21C1
Sequence	AEVTMKTNFF GTRDVCTELL PLIKPQGRVV NVSSIMSVRA LKSCSPELQQ
Species Reactivity	Human
Form/Format	Lyophilized powder
Preparation and Storage	Add 100ul of sterile PBS. Final peptide concentration is 1 mg/ml in PBS. For longer periods of storage, store at -20 degree C. Avoid repeat freeze-thaw cycles.
Antibody/Peptide Pairs	CBR1 peptide (MBS3232887) is used for blocking the activity of CBR1 antibody (MBS3207921)
Molecular Weight	30kDa
OMIM	114830
Product Categories/Family for CBR1 blocking peptide	Peptide
Applications Tested/Suitable for CBR1 blocking peptide	Western Blot (WB)
Related Product Information for CBR1 blocking peptide	This is a synthetic peptide designed for use in combination with anti-CBR1 Antibody, made Target Description: Carbonyl reductase is one of several monomeric, NADPH-dependent oxidoreductases having wide specificity for carbonyl compounds. This enzyme is widely distributed in human tissues.
Other Notes	Small volumes of CBR1 blocking peptide vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for CBR1 purchase	MBS3232887 is a blocking peptide targeting CBR1. Also known as CBR1 Peptide - middle region. Reactive in Human.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CBR1. It may not necessarily be applicable to this product.

NCBI GI #	4502599
NCBI GeneID	873
NCBI Accession #	NP_001748
UniProt Primary Accession #	P16152
UniProt Related Accession #	P16152
GenBank Nucleotide #	NM_001757
NCBI Official Full Name	carbonyl reductase
NCBI Official Synonym Full Names	carbonyl reductase 1

NCBI Official Symbol	CBR1
NCBI Official Synonym Symbols	CBR; hCBR1; SDR21C1
UniProt Protein Name	Carbonyl reductase [NADPH] 1
UniProt Synonym Protein Names	15-hydroxyprostaglandin dehydrogenase [NADP(+)] (EC:1.1.1.197); NADPH-dependent carbonyl reductase 1; Prostaglandin 9-ketoreductase; Prostaglandin-E(2) 9-reductase (EC:1.1.1.189)
Protein Family	Carbonyl reductase
UniProt Gene Name	CBR1
UniProt Synonym Gene Names	CBR; CRN
UniProt Entry Name	CBR1_HUMAN
NCBI Protein Information	carbonyl reductase [NADPH] 1
NCBI Summary for CBR1	The protein encoded by this gene belongs to the short-chain dehydrogenases/reductases (SDR) family, which function as NADPH-dependent oxidoreductases having wide specificity for carbonyl compounds, such as quinones, prostaglandins, and various xenobiotics. Alternatively spliced transcript variants have been found for this gene. [provided by RefSeq, Nov 2013]
UniProt Comments for CBR1	CBR1: NADPH-dependent reductase with broad substrate specificity. Catalyzes the reduction of a wide variety of carbonyl compounds including quinones, prostaglandins, menadione, plus various xenobiotics. Catalyzes the reduction of the antitumor anthracyclines doxorubicin and daunorubicin to the cardiotoxic compounds doxorubicinol and daunorubicinol. Can convert prostaglandin E2 to prostaglandin F2-alpha. Can bind glutathione, which explains its higher affinity for glutathione-conjugated substrates. Catalyzes the reduction of S-nitrosoglutathione. Belongs to the short-chain dehydrogenases/reductases (SDR) family. Protein type: Lipid Metabolism - arachidonic acid; EC 1.1.1.189; EC 1.1.1.197; EC 1.1.1.184; Oxidoreductase Chromosomal Location of Human Ortholog: 21q22.13 Cellular Component: cytosol; vesicle Molecular Function: oxidoreductase activity, acting on NADH or NADPH, quinone or similar compound as acceptor; prostaglandin-E2 9-reductase activity; 15-hydroxyprostaglandin dehydrogenase (NADP+) activity; carbonyl reductase (NADPH) activity Biological Process: epithelial cell differentiation; vitamin K metabolic process; cyclooxygenase pathway; arachidonic acid metabolic process; drug metabolic process
Research Articles on CBR1	**1.** Findings suggest that CBR1 has an important role in DNA damage response through regulation of irradiation-mediated ROS generation causing to regulation of radiosensitivity, and CBR1 inhibition with IR might be a potent therapeutic strategy for head and neck squamous cell carcinoma treatment.
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