

Carbonyl Reductase-3 Recombinant Protein | CBR3 recombinant protein

Recombinant Human Carbonyl Reductase-3

CATALOG # AAA38678	HOST Escherichia Coli
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PRODUCT SYNONYMS

Carbonyl Reductase-3; Recombinant Human Carbonyl Reductase-3; CBR3 Human; Carbonyl Reductase-3 Human Recombinant; Carbonyl reductase [NADPH] 3; NADPH-dependent carbonyl reductase 3; CBR3; carbonyl reductase 3; hCBR3; SDR21C2; CBR3 recombinant protein

PRODUCT SPECIFICATIONS

Host	Escherichia Coli
Purity/Purification	Greater than 95.0% as determined by analysis by SDS-PAGE.
Form/Format	The CBR3 protein solution (1mg/mL) contains 20mM Tris-HCl buffer (pH 8.0) and 10% glycerol.
Sequence	MGSSHHH HHHSSGLVPR GSH&nb sp;MSSCSRV ALVTGANRGI GLAIARELCR QFSGDVVLT RDVARGQAAV QQLQAEGLSP RFHQLDIDL QSIRALRDFL RKEYGGLNVL VNNAVAFKS DDPMPFDIKA EMTLKTNFFA TRNMCNELLP IMKPHGRVVN ISSLQCLRAF ENCEDLQER FHSETLTGED LVDLMKKFVE DTKNEVHERE GWPNSPYGVS KLGVTLSRI LARRLDEKRR ADRILVNACC PGPVKTDMDG KDSIRTVEEG AETPVYLALL PPDATEPQGQ LVHDKVVQNW
Sequence Length	277
Physical Appearance	Sterile filtered colorless solution.
Preparation and Storage	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.

ADDITIONAL INFORMATION

Related Product Information for CBR3 recombinant protein	Description: Recombinant Human CBR3 fused with a 20 amino acid His tag at N-terminus produced in E Coli is a single, non-glycosylated polypeptide chain containing 297 amino acids (1-277 a.a) and having a molecular mass of 33kDa. CBR3 is purified by proprietary chromatographic techniques. Introduction: CBR3 catalyzes the reduction of a large number of biologically and pharmacologically active carbonyl compounds to their corresponding alcohols. CBR3 is one of several monomeric NADPH-dependent oxidoreductases. Furthermore, CBR3 contains 3 exons spanning 11.2 kilobases and is strongly linked to another carbonyl reductase gene, the CBR1. It was suggested that CBR3 mediates 9-cis-retinoic acid-induced cytostatis and is a potential prognostic marker for oral malignancy.CBR3 is identified in the ovary, pancreas, intestine, colon, kidney, brain, thymus, lung, heart, liver, spleen, leukocyte, prostate and the testis.Polymorphisms in CBR3 may give an explanation to interindividual and interethnic variability of doxorubicin pharmacokinetics and pharmacodynamics.
Product Categories/Family for CBR3 recombinant protein	Enzymes; Reductase

NCBI AND UNIPROT INFORMATION

NCBI GI #	4502601
NCBI GeneID	874

NCBI Accession #	NP_001227.1
NCBI GenBank Nucleotide #	NM_001236.3
UniProt Accession #	O75828; Q6FHP2
NCBI Official Full Name	carbonyl reductase
NCBI Official Synonym Full Names	carbonyl reductase 3
NCBI Official Symbol	CBR3
NCBI Official Synonym Symbols	hCBR3; SDR21C2; HEL-S-25
NCBI Protein Information	carbonyl reductase [NADPH] 3; carbonyl reductase [NADPH] 3; NADPH-dependent carbonyl reductase 3; carbonyl reductase (NADPH) 3; epididymis secretory protein Li 25; short chain dehydrogenase/reductase family 21C, member 2
UniProt Protein Name	Carbonyl reductase [NADPH] 3
UniProt Gene Name	CBR3
UniProt Entry Name	CBR3_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com
Online datasheet: <https://stage.aaabiotech.com/cbr3-recombinant-protein-escherichia-coli/38678>