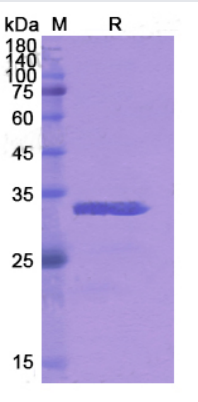
# CBR3 Human Recombinant Protein

## PRODUCT OVERVIEW

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| **Product Name** | CBR3, Recombinant Protein |
| **Full Product Name** | Recombinant Human CBR3, N-His |
| **Product Gene Name** | CBR3 recombinant protein |
| **Product Synonym Names** | Carbonyl reductase [NADPH] 3; Short chain dehydrogenase/reductase family 21C member 2; NADPH-dependent carbonyl reductase 3; CBR3 |
| **Host** | E coli |
| **Form/Format** | Lyophilized from a solution in PBS pH7.4, 0.02% NLS, 1mM EDTA, 4% Trehalose, 1% Mannitol. |
| **Purity/Purification** | >90% as determined by SDS-PAGE |
| **Preparation and Storage** | Use a manual defrost freezer and avoid repeated freeze thaw cycles. Store at 2 to 8 degree C for one week. Store at -20 to -80 degree C for twelve months from the date of receipt. |
| **Molecular Weight** | 30,850 Da |
| **Sequence Positions** | Met1-Trp277 |
| **Chromosome Location** | Chromosome: 21; NC_000021.8 (37507263..37518860). Location: 21q22.2 |
| **OMIM** | 603608 |
| **3D Structure** | ModBase 3D Structure for O75828 |
| **Species** | Human |
| **Reconstitution** | Reconstitute in sterile water for a stock solution. |
| **Product Categories/Family for CBR3 recombinant protein** | Recombinant Proteins |
| **ISO Certification** | Manufactured in an ISO 9001:2015 Certified Laboratory. |
| **Applications Tested/Suitable for CBR3 recombinant protein** | SDS-PAGE (SDS), Western Blot (WB), ELISA (EIA), Immunogen |
| **Related Product Information for CBR3 recombinant protein** | MBS1572685 is a recombinant protein targeting CBR3. Also known as Recombinant Human CBR3, N-His. Host: E coli. |
| **Other Notes** | Small volumes of CBR3 recombinant protein 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. |




**SDS-Page of CBR3 recombinant protein**
SDS PAGE for recombinant Human CBR3 protein

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CBR3. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 4502601 |
| **NCBI GeneID** | 874 |
| **NCBI Accession #** | NP_001227.1 |
| **UniProt Primary Accession #** | O75828 |
| **UniProt Secondary Accession #** | Q6FHP2 |
| **UniProt Related Accession #** | O75828 |
| **GenBank Nucleotide #** | NM_001236.3 |
| **NCBI Official Full Name** | carbonyl reductase |
| **NCBI Official Synonym Full Names** | carbonyl reductase 3 |
| **NCBI Official Symbol** | CBR3 |
| **NCBI Official Synonym Symbols** | hCBR3; SDR21C2 |
| **UniProt Protein Name** | Carbonyl reductase [NADPH] 3 |
| **UniProt Synonym Protein Names** | NADPH-dependent carbonyl reductase 3 |
| **Protein Family** | Carbonyl reductase |
| **UniProt Gene Name** | CBR3 |
| **UniProt Entry Name** | CBR3_HUMAN |
| **NCBI Protein Information** | carbonyl reductase [NADPH] 3; carbonyl reductase [NADPH] 3; carbonyl reductase (NADPH) 3; NADPH-dependent carbonyl reductase 3; short chain dehydrogenase/reductase family 21C, member 2 |
| **NCBI Summary for CBR3** | Carbonyl reductase 3 catalyzes the reduction of a large number of biologically and pharmacologically active carbonyl compounds to their corresponding alcohols. The enzyme is classified as a monomeric NADPH-dependent oxidoreductase. CBR3 contains three exons spanning 11.2 kilobases and is closely linked to another carbonyl reductase gene - CBR1. [provided by RefSeq, Jul 2008] |

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| **UniProt Comments for CBR3** | CBR3: Has low NADPH-dependent oxidoreductase activity towards 4-benzoylpyridine and menadione (in vitro). Belongs to the short-chain dehydrogenases/reductases (SDR) family.<br><br>Protein type: Oxidoreductase; EC 1.1.1.184; Lipid Metabolism - arachidonic acid<br><br>Chromosomal Location of Human Ortholog: 21q22.2<br><br>Cellular Component: nucleoplasm; extracellular space; cytoplasm; cytosol<br><br>Molecular Function: 3-keto sterol reductase activity; carbonyl reductase (NADPH) activity<br><br>Biological Process: phylloquinone catabolic process; cognition |
| **Research Articles on CBR3** | **1.** Variants of CBR3 and GSTP1 enzymes may be associated with changes in short-term functional cardiac parameters. |
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