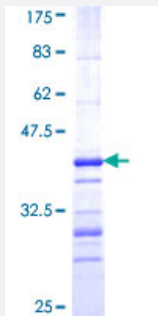


CBR3 (Human) Recombinant Protein (Q01)

Catalog # H00000874-Q01

Size 25 ug, 10 ug

Applications



Specification

Product Description	Human CBR3 partial ORF (NP_001227, 180 a.a. - 277 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	KNEVHEREGWPNSPYGVSKLGVTVLSRILARRLDEKRAADRILVNACCPGPVKTDMDGKDSIRTV EEGAETPVYLALLPPDATEPQGQLVHDKVVQNW
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	36.52
Preparation Method	in vitro wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — CBR3

Entrez GeneID [874](#)

GeneBank Accession# [NM_001236](#)

Protein Accession# [NP_001227](#)

Gene Name CBR3

Gene Alias SDR21C2, hCBR3

Gene Description carbonyl reductase 3

Omim ID [603608](#)

Gene Ontology [Hyperlink](#)

Gene Summary 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]

Other Designations NADPH-dependent carbonyl reductase 3|carbonyl reductase (NADPH) 3|short chain dehydrogenase/reductase family 21C, member 2

Publication Reference

- [Naturally Occurring Variants of Human CBR3 Alter Anthracycline In Vitro Metabolism.](#)

Bains OS, Karkling MJ, Lubieniecka JM, Grigliatti TA, Reid RE, Riggs KW.

The Journal of Pharmacology and Experimental Therapeutics 2010 Mar; 332(3):755.

Application: WB, Escherichia coli, BL21 (DE3) pLysS competent cells

Pathway

- [Arachidonic acid metabolism](#)
- [Metabolic pathways](#)

Disease

- [Breast cancer](#)
- [Breast Neoplasms](#)
- [Carcinoma](#)
- [Genetic Predisposition to Disease](#)
- [Lung Neoplasms](#)
- [Neoplasms](#)
- [Obesity](#)
- [Ovarian Failure](#)
- [Polycystic Ovary Syndrome](#)
- [Puberty](#)
- [Pulmonary Disease](#)
- [Thrombophilia](#)
- [Tobacco Use Disorder](#)
- [Urinary Bladder Neoplasms](#)
- [Werner syndrome](#)