

CBR1 Protein, Human, Recombinant (His)

General Information

Synonyms:	15-hydroxyprostaglandin dehydrogenase [NADP(+)]; Short chain dehydrogenase/reductase family 21C member 1; Carbonyl reductase [NADPH] 1; CBR; Alcohol dehydrogenase [NAD(P)+] CBR1; 20-beta-hydroxysteroid dehydrogenase; Prostaglandin-E(2) 9-reductase; CRN; CBR1; Prostaglandin 9-ketoreductase (PG-9-KR); SDR21C1; NADPH-dependent carbonyl reductase 1
Protein Construction:	2-277 aa
Species:	Human
Expression Host:	P. pastoris (Yeast)
Accession:	P16152
Molecular Weight:	32.2 kDa (predicted)
AA Sequence:	SSGIHVALVTGGNKGIGLAIVRDLCLFSGDVVLTARDVTRGQAAVQQLQAEGLSPRFHQLDIDDLQSIRALR DFLRKEYGGLDVLVNNAGIAFKVADPTPFHIQAEVTMKTNFFGTRDVCTELLPLIKPQGRVNVSSIMSVRALK SCSPELQQKFRSETITEELVGLMNKFVEDTKKGVHQKEGWPSAYGVTKIGVTVLSRIHARKLSEQRKGDKIL LNACCPGWVRTDMAGPKATKSPEEGAETPVYLALLPPDAEGPHGQFVSEKRVEQW

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 90% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Tris-based buffer, 50% glycerol

Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

NADPH-dependent reductase with broad substrate specificity. Catalyzes the reduction of a wide variety of

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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 E to prostaglandin F₂-alpha. Can bind glutathione, which explains its higher affinity for glutathione-conjugated substrates. Catalyzes the reduction of S-nitrosoglutathione.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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