

Product datasheet

Recombinant Human CBR1 protein ab117172

Overview

Product name	Recombinant Human CBR1 protein
Protein length	Full length protein

Description

Nature	Recombinant
Source	Escherichia coli

Amino Acid Sequence

Accession	P16152
Species	Human
Sequence	MSSGIHVALVTGGNKIGLAMRDLCRFLSGDVVLTARDVTRGQAAVQQL QAEGLSPRFHQLDIDDLQSIKALRDLRFLRKEYGGLDVLVNNAGIAFKVADP TPFHQAEVTMKTNFFGTRDVCTELLPLIKPQGRVVNVSSIMSVRALKSC SPELQQKFRSETITEEELVGLMNKFVEDTKKGVHQKEGWPSSAYGVTKIG VTVLSRIHARKLSEQRKGDKILLNACCPGWVRTDMAGPKATKSPEEGAET PVYLALLPPDAEGPHGQFVSEKRVEQW
Molecular weight	30 kDa
Amino acids	1 to 277

Specifications

Our [Abpromise guarantee](#) covers the use of **ab117172** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	SDS-PAGE
Purity	> 95 % SDS-PAGE. ab117172 is purified by proprietary chromatographic techniques.
Form	Liquid
Additional notes	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.

Preparation and Storage

Stability and Storage

Shipped at 4°C. Please see notes section.

pH: 8.50

Constituents: 0.32% Tris HCl, 10% Glycerol

General Info

Function

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-nitrosogluthathione.

Sequence similarities

Belongs to the short-chain dehydrogenases/reductases (SDR) family.

Cellular localization

Cytoplasm.

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