

Human CBR3 / HCBR3 / Carbonyl Reductase 3 Protein (His Tag)

Catalog Number: 14632-H07E



Sino Biological Inc.
Biological Solution Specialist

General Information

Gene Name Synonym:

hCBR3; HEL-S-25; SDR21C2; 1110001J05Rik; C81353

Protein Construction:

A DNA sequence encoding the human CBR3 (O75828) (Met1-Trp277) was expressed with a polyhistidine tag at the N-terminus.

Source: Human

Expression Host: E. coli

QC Testing

Purity: > 90 % as determined by SDS-PAGE

Endotoxin:

Please contact us for more information.

Stability:

Samples are stable for up to twelve months from date of receipt at -70 °C

Predicted N terminal: His

Molecular Mass:

The recombinant human CBR3 consists of 292 amino acids and predicts a molecular mass of 32.7 KDa. It migrates as an approximately 37 KDa band in SDS-PAGE under reducing conditions.

Formulation:

Lyophilized from sterile 50 mM Tris, 10% glycerol, pH 8.0.

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

Usage Guide

Storage:

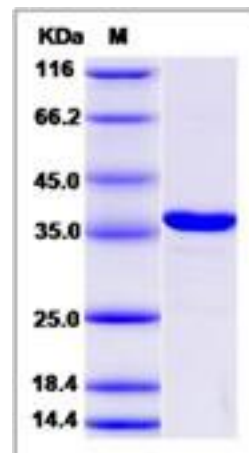
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

Reconstitution:

Detailed reconstitution instructions are sent along with the products.

SDS-PAGE:



Protein Description

CBR3, also known as hCBR3, belongs to the short-chain dehydrogenases/reductases (SDR) family. CBR3 is expressed in ovary, pancreas, intestine, colon, kidney, brain, thymus, lung, heart, liver, spleen, leukocyte, prostate and testis. It is a monomeric NADPH-dependent oxidoreductase and is closely linked to another carbonyl reductase gene – CBR1. CBR3 catalyzes the reduction of a large number of biologically and pharmacologically active carbonyl compounds to their corresponding alcohols. It has low NADPH-dependent oxidoreductase activity towards 4-benzoylpyridine and menadione (in vitro).

References

- 1.Lakhman SS. et al., 2005, Drug Metab Dispos. 33 (2): 254-7.
- 2.Gerhard DS. et al., 2004, Genome Res. 14 (10B): 2121-7.
- 3.Strausberg RL. et al., 2003, Proc Natl Acad Sci. 99 (26): 16899-903.

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