Data Sheet (Cat.No.TMPY-03867)

TargetMol

CBR3 Protein, Human, Recombinant (His)

General Information

Synonyms:	SDR21C2;carbonyl reductase 3;hCBR3;HEL-S-25
Protein Construction:	A DNA sequence encoding the human CBR3 (O75828) (Met1-Trp277) was expressed with a polyhistidine tag at the N-terminus. Predicted N terminal: His
Species:	Human
Expression Host:	E. coli
Accession:	O75828
Molecular Weight:	32.7 kDa (predicted); 37 kDa (reducing conditions)

QC Testing

Biological Activity:	Activity testing is in progress. 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:	Please contact us for more information.
Formulation:	Lyophilized from a solution filtered through a 0.22 μm filter, containing 50 mM Tris, 10% glycerol, pH 8.0.Typically, a mixture containing 5% to 8% trehalose, mannitol, and 0.01% Tween 80 is incorporated as a protective agent before lyophilization.

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:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. 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

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).

Reference

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

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