

## DHCR7 Protein, Bovine, Recombinant (His)

## General Information

Synonyms:	DHCR7;Cholesterol-5,6-epoxide hydrolase subunit DHCR7;7-DHC reductase;7-dehydrocholesterol reductase;Sterol Delta(7)-reductase
Protein Construction:	1-475 aa
Species:	Bovine
Expression Host:	E. coli
Accession:	Q5E9J5
Molecular Weight:	55.8 kDa (predicted)
AA Sequence:	MAAKSQPSAPKTKSTSGLTNGNAAAQGWGRAWEVDWVSLASVIFLLFAPFIVYYFIMACDQYGCSLTPV ADLATGRARLADIWARTPPVTAKAAQIYTAWVTLQVLLYMLLPDFCHKFLPGYVGGVQEGAVTPAGAVNKYE INGLQAWLLTHLLWFANAHLGWFSPTIIFDNWIPLLCANILGYTVSTFAMVKGYLFPTDARECKFTGNFFY NYMMGVEFNPRIGKWFDFKLFNGRPGIVAWTLINLSFAAKQQELYGHVNTSMVLVNLQAIYVLDFFWNET WYLKTIDICHDFGWYLGWDCVWLPYLYTLQGLYLVIYHPVQLPTYALGVLLGLLGYYIFRMTNHQKDLFR RTDGRCLIWGRKPKAIECSYTSADGQRHHSKLLVSGFWGVARHFNYTGDLMGSLAYCLACGGGHLLPYFYIIF MAILLTHRCLRDEHRCANKYGRDWEHYTAAVPYRLLPGIF

## 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:	> 85% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	If the delivery form is liquid, the default storage buffer is Tris/PBS-based buffer, 5%-50% glycerol. If the delivery form is lyophilized powder, the buffer before lyophilization is Tris/PBS-based buffer, 6% Trehalose, pH 8.0.

## Preparation and Storage

## Reconstitution:

Reconstitute the lyophilized protein in sterile deionized water. The product concentration should not be less than 100 μg/mL. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

## Stability &amp; 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**

7-dehydrocholesterol reductase of the cholesterol biosynthetic pathway reducing the C7-C8 double bond of cholesta-5,7-dien-3beta-ol (7-dehydrocholesterol/7-DHC) and cholesta-5,7,24-trien-3beta-ol, two intermediates in that pathway.

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