

## DHCR7 Protein, Bovine (Cell-Free, His)

<b>Cat. No.:</b>	HY-P702263
<b>Synonyms:</b>	7-dehydrocholesterol reductase; Sterol Delta(7)-reductase
<b>Species:</b>	Bovine
<b>Source:</b>	E. coli Cell-free
<b>Accession:</b>	Q5E9J5 (M1-F475)
<b>Gene ID:</b>	514745
<b>Molecular Weight:</b>	55.8 kDa

### PROPERTIES

<b>AA Sequence</b>	<pre> M A A K S Q P S A P   K T K S T S G L T N   G N A A A Q G Q W G   R A W E V D W F S L A S V I F L L L F A   P F I V Y Y F I M A   C D Q Y G C S L T V   P V A D L A T G R A R L A D I W A R T P   P V T A K A A Q I Y   T A W V T L Q V L L   Y M L L P D F C H K F L P G Y V G G V Q   E G A V T P A G A V   N K Y E I N G L Q A   W L L T H L L W F A N A H L L G W F S P   T I I F D N W I P L   L W C A N I L G Y T   V S T F A M V K G Y L F P T D A R E C K   F T G N F F Y N Y M   M G V E F N P R I G   K W F D F K L F F N G R P G I V A W T L   I N L S F A A K Q Q   E L Y G H V T N S M   V L V N I L Q A I Y V L D F F W N E T W   Y L K T I D I C H D   H F G W Y L G W G D   C V W L P Y L Y T L Q G L Y L V Y H P V   Q L P T Y Y A L G V   L L L G L L G Y Y I   F R M T N H Q K D L F R R T D G R C L I   W G R K P K A I E C   S Y T S A D G Q R H   H S K L L V S G F W G V A R H F N Y T G   D L M G S L A Y C L   A C G G G H L L P Y   F Y I I F M A I L L T H R C L R D E H R   C A N K Y G R D W E   H Y T A A V P Y R L   L P G I F </pre>
<b>Appearance</b>	Lyophilized powder.
<b>Formulation</b>	Lyophilized from a 0.22 µm filtered solution of Tris/PBS-based buffer, 6% Trehalose, pH 8.0.
<b>Endotoxin Level</b>	<1 EU/µg, determined by LAL method.
<b>Reconstitution</b>	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH <sub>2</sub> O. For long term storage it is recommended to add 5-50% of glycerol (final concentration). Our default final concentration of glycerol is 50%. Customers could use it as reference.
<b>Storage &amp; Stability</b>	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
<b>Shipping</b>	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

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**Background**

The DHCR7 Protein, also known as 7-dehydrocholesterol reductase, is an enzyme involved in the cholesterol biosynthetic pathway. It plays a crucial role in reducing the C7-C8 double bond of two intermediates in the pathway, namely cholesta-5,7-dien-3beta-ol (7-dehydrocholesterol/7-DHC) and cholesta-5,7,24-trien-3beta-ol.

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**Caution: Product has not been fully validated for medical applications. For research use only.**

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