

Recombinant human NSDHL protein

Catalog Number: ATGP2460

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-297aa

UniProt No.

Q15738

NCBI Accession No.

NP_057006

Alternative Names

Sterol-4-alpha-carboxylate 3-dehydrogenase decarboxylating, Sterol-4-alpha-carboxylate 3-dehydrogenase, decarboxylating, H105E3, SDR31E1, XAP104

PRODUCT SPECIFICATION

Molecular Weight

35.5 kDa (320aa) confirmed by MALDI-TOF

Concentration

0.25mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol 0.1M NaCl

Purity

> 80% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

NSDHL, as known as Sterol-4-alpha-carboxylate 3-dehydrogenase, is involved in the production (synthesis) of cholesterol. During cholesterol synthesis, it participates in one of several steps that convert a molecule called lanosterol to cholesterol. Specifically, this enzyme removes a carbon atom and three hydrogen atoms (a methyl group) in the conversion of lanosterol to cholesterol. It is also an important component of cell membranes and myelin, the fatty covering that insulates nerve cells. Recombinant human NSDHL protein, fused to His-tag at N-

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terminus, was expressed in *E. coli* and purified by using conventional chromatography.

Amino acid Sequence

MGSSHHHHHH SSSLVPRGSH MGSMEPAVSE PMRDQVARTH LTEDTPKVNA DIEKVNQNQA KRCTVIGGSG
FLGQHMVEQL LARGYAVNVF DIQQGFDNPQ VRFFLGDLCS RQDLYPALKG VNTVFHCASP PPSSNNKELF YRVNYIGTKN
VIETCKEAGV QKLILTSSAS VIFEGVDIKN GTEDLPYAMK PIDYYTETKI LQERAVLGAN DPEKNFLT TA IRPHGIFGPR
DPQLVPILIE AARNGKMKFV IGNGKNLVDF TFVENVVHGH ILAAEQLSRD STLGGKAFHI TNDEPIPFWT FLSRILTGLN
YEAPKYHIPY

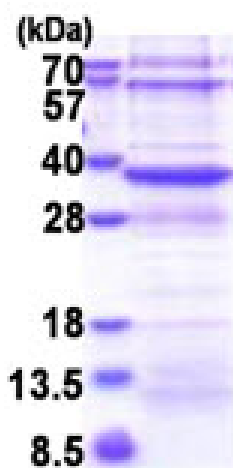
General References

Morimoto M. et al. (2012) *J Mol Histol.* 43:95-106

McLarren KW. et al. (2010) *Am J Hum Genet* 87:905-914.

DATA

SDS-PAGE



3 μ g by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

15% SDS-PAGE (3 μ g)