

NSDHL, 1-297aa, Human, His tag, E.coli

Cat.NO.: TP03203

3th Edition

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

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

Form: Liquid. 20mM Tris-HCl buffer (pH8.0) containing 10% glycerol 0.1M NaCl

Molecular Weight: 35.5kDa (320aa), confirmed by MALDI-TOF

Sequences:

MGSSHHHHHSSGLVPRGSHMGSM E PAVSEPMRDQVARTHLTEDTPKVNADIEKVNQNQAKRCTVIGGSGFLGQ
HMVEQLLARGYAVNVFDIQQGFDNPQVRFFLDLCSRQDLYPALKGVNTVFHCASPPSSNNKELFYRVNYIGTKN
VIETCKEAGVQKLILTSSASVIFEGVDIKNGTEDLPYAMKPIDYYTETKILQERAVLGANDPEKNFLT TAIRPHGIFGPR
DPQLVPILIEAARNGKMKFVINGKNLVDFTFVENNVHGHILAAEQLSRDSTLGGKAFHITNDEPIPFWTFLSRILTGL
NYEAPKYHIPY

Purity: > 95% by HPLC

Concentration: 0.25 mg/ml (determined by Bradford assay)

Endotoxin Level: <1.0 EU per 1 ug of protein (determined by LAL method)

Storage: Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.