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Recombinant human FDFT1 protein

Catalog Number: ATGP2789

PRODUCT INFORMATION

Expression system
E.coli

Domain
1-283aa

UniProt No.
P37268

NCBI Accession No.
NP_004453

Alternative Names
Squalene synthase, DGPT, ERG9, SQS, SS

PRODUCT SPECIFICATION

Molecular Weight
35.4 kDa (306aa)

Concentration
0.25mg/ml (determined by Bradford assay)

Formulation
Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 0.4M urea

Purity
> 85% by SDS-PAGE

Tag
His-Tag

Application
SDS-PAGE,Denatured

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
FDFT1 is a membrane-associated enzyme located at a branch point in the mevalonate pathway. The encoded protein is the first specific enzyme in cholesterol biosynthesis, catalyzing the dimerization of two molecules of farnesyl diphosphate in a two-step reaction to form squalene. Recombinant human FDFT1 protein, fused to His-tag at N-terminus, was expressed in E. coli.

Amino acid Sequence
MGSSHHHHHH SSGLVPRGSH MGSMEFVKCL GHPEEFYNLV RFRIGGKRKV MPKMDQDSLS SSLKTCYKYL NQTSRSFAAV

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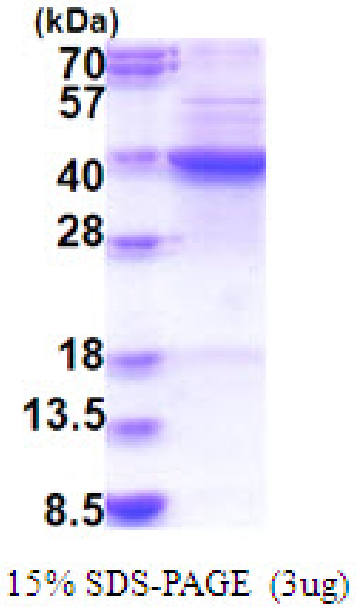
IQALDGEMRN AVCIFYLVLR ALDTLEDDMT ISVEKKVPLL HNFHSFLYQP DWRFMESKEK DRQVLEDFPT ISLEFRNLAE KYQTVIADIC RRMGIGMAEF LDKHVTSEQE WDKYCHYVAG LVGIGLSRLF SASEFEDPLV GEDTERANSM GLFLQKTNII RDYLEDQQGG REFWPQEVWS RYVKKLGDFA KPENIDLAVQ CLNELITNAL HHIPDVITYL SRLRNQ

General References

Tansey TR, Shechter I (2000) Biochim. Biophys. Acta 1529 (1-3): 49-62.

DATA

SDS-PAGE



15% SDS-PAGE (3ug)

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