

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

MGSSHHHHHHH SSGLVPRGSH MGSMEFVKCL GHPEEFYNLV RFRIGGKRKV MPKMDQDSL SSSLKTCYKYL NQTSRSFAAV

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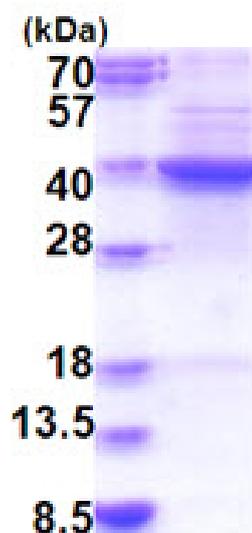
IQALDGEMRN AVCIFYLVLR ALDTLEDDMT ISVEKKVPLL HNFHSFLYQP DWRFMESKEK DRQVLEDFPT ISLEFRNLAE
KYQTVIADIC RRMGIGMAEF LDKHVTSEQE WDKYCHYVAG LVGIGLSRLF SASEFEDPLV GEDTERANSM GLFLQKTNII
RDYLEDQQGG REFWPQEVWS RYVKKLG DFA KPENIDLAVQ CLNELITNAL HHIPDVITYL SRLRNQ

General References

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

DATA

SDS-PAGE



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

15% SDS-PAGE (3ug)