

**FDFT1, 1-283aa, Human, His tag, E.coli**

**Cat.NO.: TP02109**

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3th Edition

**Synonyms:**Squalene synthase, DGPT, ERG9, SQS, SS

**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 .

**Form:**Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 0.4M Urea

**Molecular Weight:**35.4 kDa ( 306aa)

**Sequences:**

MGSSHHHHHSSGLVPRGSHMGSMFVKCLGHPEEFYNLVRFRIGGKRKVMKMDQDSLSSSLKTCYKYLNQTS  
RSFAAVIQALDGEMRNAVCIFYLVLRALDTLEDDMTISVEKKVLLHNFHSFLYQPDWRFMESKEKDRQVLEDFPTI  
SLEFRNLAEKYQTVIADICRRMGIGMAEFLDKHVTSEQEWDKYCHYVAGLVGIGLSRLFSASEFEDPLVGEDTERAN  
SMGLFLQKTNIIRDYLEDDQGGREFWPQEVWSRYVKKLGDFAKPENIDLAVQCLNELITNALHHIPDVITYLSRLRN  
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**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.