

## 32-2321: FDFT1 Recombinant Protein

**Alternative Name :** Farnesyl-Diphosphate Farnesyltransferase 1, Squalene Synthase, SQS, SS, FPP:FPP Farnesyltransferase, EC 2.5.1.21, DGPT, ERG9, Presqualene-Di-Diphosphate Synthase, Squalene Synthetase, Farnesyl-Diphosphate, Farnesyltransferase, FDFT1.

### Description

Source : Escherichia Coli. FDFT1 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 306 amino acids (1-283 a.a) and having a molecular mass of 35.4 kDa. FDFT1 is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques. Farnesyl-Diphosphate Farnesyltransferase 1, also known as FDFT1 is a membrane-associated enzyme sited at a branch point in the mevalonate pathway. FDFT1 belongs to the phytoene/squalene synthase family. FDFT1 is the 1st specific enzyme in cholesterol biosynthesis, which catalyzes the dimerization of 2 molecules of farnesyl diphosphate in a two-step reaction to form squalene.

### Product Info

**Amount :** 10 µg

**Purification :** Greater than 85.0% as determined by SDS-PAGE.

**Content :** FDFT1 protein solution (0.25 mg/ml) containing 20mM Tris-HCl buffer (pH 8.0), 10% glycerol and 0.4M Urea.

**Storage condition :** Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

**Amino Acid :** MGSSHHHHHH SSGLVPRGSH MGSMEFVKCL GHPEEFYNLV RFRIGGKRV MPKMDQDSLS  
SSLKTCYKYNQTSRSFAAV IQALDGEMRN AVCIFYLVLR ALDTLEDDMT ISVEKKVPLL  
HNFHSFLYQP DWRFMESKEKDRQVLEDFPT ISLEFRNLAE KYQTVIADIC  
RRMGIGMAEFLDKHVTSEQE WDKYCHYVAGLVGIGLSRLF SASEFEDPLV GEDTERANSM  
GLFLQKTNI RDYLEDQQGG REFWPQEVWS RYVKKLGDF KPNIDLAVQCLNELITNAL  
HHIPDVITYL SRLRNQ.

