
Product Data Sheet

Product Name: FDFT1 Human
 Cat. No.: GP21622
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	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.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSMEFVKCL GHPEEFYNLV RFRIGGKRKV MPKMDQDSLS SSLKTCYKYL NQTSRSFAAV IQALDGEMRN AVCIFYLVLR ALDTLEDDMT ISVEKKVPLL HNFHSFLYQP DWRFMESKEKDRQVLEDFPT ISLEFRNLAE KYQTVIADIC RRMGIGMAEFLDKHVTSEQE WDKYCHYVAGLVGIGLSRLF SASEFEDPLV GEDTERANSM GLFLQKTNII RDYLEDQQGG REFWPQEVWS RYVKKLG DFA KPENIDLAVQCLNELITNAL HHIPDVITYL SRLRNQ.		
Formulation	FDFT1 protein solution (0.25 mg/ml) containing 20mM Tris-HCl buffer (pH 8.0), 10% glycerol and 0.4M Urea.		

Introduction

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.

Stability

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.

Caution: Product has not been fully validated for medical applications. For research use only.

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Address: 10292 Central Ave. #205, Montclair, CA, USA

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Background

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.

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