
Product Data Sheet

Product Name: ATP5D Human
 Cat. No.: GP21426
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	ATP synthase subunit delta mitochondrial; F-ATPase delta subunit; ATP5D.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MAEAAAAPAA ASGPNQMSFT FASPTQVFFN GANVRQVDVP TLTGAFGILA AHVPTLQVLR PGLVVVHAED GTTSKYFVSS GSIAVNADSS VQLLAEEAVT LDMLDLGAAK ANLEKAQAEL VGTADEATRA EIQIRIEANE ALVKALE.		
Formulation	ATP5D protein solution (0.25mg/ml) containing 20mM Tris-HCl buffer (pH8.0), 20% glycerol and 0.1M NaCl.		

Introduction

F-ATPase delta (ATP5D) catalyzes ATP synthesis, employing an electrochemical gradient of protons across the inner membrane during oxidative phosphorylation. ATP synthase is composed of 2 linked multi-subunit complexes: F₁-the soluble catalytic core and F_o- the membrane-spanning component, which comprise the proton channel. The catalytic portion of mitochondrial ATP synthase consists of five different subunits (alpha, beta, gamma, delta, and epsilon) assembled with a stoichiometry of 3 alphas, 3 betas, and a single representative of the other three. The proton channel consists of three main subunits-a, b, c. ATP5D is the delta subunit of the catalytic core.

Stability

ATP5D Human Recombinant although stable at 4°C for 1 week, should be stored below -18°C . Please prevent freeze thaw cycles.

Background

ATP5D produced in E.Coli is a single, non-glycosylated polypeptide chain containing 167 amino acids (23-168 a.a.) and having a molecular mass of 17.3kDa.ATP5D is fused to a

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21 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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