
Product Data Sheet

Product Name: ATP5F1 Human
 Cat. No.: GP22807
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	ATP Synthase Proton-Transporting Mitochondrial F(0) Complex Subunit B1; ATP Synthase H ⁺ Transporting; Mitochondrial Fo Complex Subunit B Isoform 1; ATPase Subunit B; ATP Synthase B Chain Mitochondrial; Cell Proliferation-Inducing Protein 47; PIG47.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSLILYALS KEIYVISAET FTALSVLGVM VYGIKKYGPV VADFADKLNQ QKLAQLEEK QASIQHIQNA IDTEKSQQAL VQKRHYLFDV QRNNIAMALE VTYRERLYRV YKEVKNRLDY HISVQNMMRR KEQEHMINWV EKHVVQSIST QQEKETIAKC IADLKLLAKK AQAQPVM		
Formulation	The ATP5F1 solution (0.5mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.4M Urea and 10% glycerol.		

Introduction

ATP5F1 is a mitochondrial ATP synthase subunit catalyzes ATP synthesis, using an electrochemical gradient of protons all through the inner membrane for the duration of the oxidative phosphorylation. ATP synthase is comprised of two linked multi-subunit complexes: the soluble catalytic core, F1, and the membrane-spanning component, Fo, including the proton channel. The catalytic segment of mitochondrial ATP synthase contains 9 subunits: 3 alpha, 3 beta, and one unit of gamma, delta, and epsilon. The proton route is known to have 9 subunits (a, b, c, d, e, f, g, F6 and 8).

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.

Background

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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ATP5F1 Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 197 amino acids (83-256) and having a molecular mass of 22.6 kDa. ATP5F1 is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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