
Product Data Sheet

Product Name: ATP5O Human
 Cat. No.: GP21427
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	ATP synthase subunit O mitochondrial; Oligomycin sensitivity conferral protein; OSCP; ATP5O; ATPO.		
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MFAKLVRPPV QVYGIEGRYA TALYSAASKQ NKLEQVEKEL LRVAQILKEP KVAASVLNPY VKRSIKVKSL NDITAKERFS PLTTNLINLL AENGRLSNTQ GVVSASFSTMM SVHRGEVPCT VTSASPLEEA TLSELKTVLK SFLSQGQVLK LEAKTDPSIL GGMIVRIGEK YVDM SVKTKI QKLGRAMREI V.		
Formulation	The ATP5O solution (1 mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 1mM DTT, 40% glycerol and 0.2M NaCl.		

Introduction

ATP synthase subunit O (ATP5O) localizes to the mitochondria and catalyzes ATP synthesis. ATP5O is a component of the F-type ATPase found in the mitochondrial matrix. F-type ATPases are composed of a catalytic core and a membrane proton channel. ATP5O seems to be part of the connector connecting these two components and may be involved in transmission of conformational changes or proton conductance.

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

ATP5O Human Recombinant fused with a 21 amino acid His tag at N-terminus produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 211 amino acids (24-213 a.a.) and having a molecular mass of 23.1kDa. The ATP5O is purified by proprietary

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

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

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chromatographic techniques.

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