Product Data Sheet

Product Name:	ATP6V1F Human
Cat. No.:	GP22809
Batch No.:	1

Product Data

Purity	>98%	Source	Escherichia Coli.
Phycical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	ATP6S14; VATF; Vma7; V-type proton ATPase subunit F; V-ATPase14 kDa subunit.		
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MGSMAGRGKL IAVIGDEDTV TGFLLGGIGE LNKNRHPNFL VVEKDTTINEIEDTFRQFLN RDDIGIILIN QYIAEMVRHA LDAHQQSIPA VLEIPSKEHP YDAAKDSILR RARGMFTAED LR.		
Formulation	ATP6V1F protein solution (0.5mg/ml) containing Phosphate buffered saline (pH7.4), 50% glycerol and 1mM DTT.		

Introduction

ATPase Transporting, Lysosomal V1 Subunit F (ATP6V1F) is a component of vacuolar ATPase (V-ATPase); it is a multi-subunit enzyme, which mediates acidification of eukaryotic intracellular organelles. V-ATPase dependent organelle acidification is required for such intracellular processes as protein sorting, zymogen activation, receptor-mediated endocytosis, and synaptic vesicle proton gradient generation. V-ATPase is comprised of a cytosolic V1 domain and a transmembrane V0 domain. The V1 domain contains 3 A and 3 B subunits, 2 G subunits as well as the C, D, E, F, and H subunits. The V1 domain has the ATP catalytic site. The V0 domain consists of 5 different subunits: a, c, c', c', and d.

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

ATP6V1F Human Recombinant produced in E.Coli is a single, non-glycosylated

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polypeptide chain containing 142 amino acids (1-119 a.a) and having a molecular mass of 15.8kDa.ATP6V1F is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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