
Product Data Sheet

Product Name: ATP6AP2 Human
 Cat. No.: GP22808
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	Renin receptor; ATPase H(+)-transporting lysosomal accessory protein 2; ATPase H(+)-transporting lysosomal-interacting protein 2; ER-localized type I transmembrane adaptor; Embryonic liver differentiation factor 10; N14F; Renin/prorenin receptor; Vacuolar ATP synthase membrane sector-associated protein M8-9; ATP6M8-9; V-ATPase M8.9 subunit; ATP6AP2; ATP6IP2; CAPER; ELDF10; M8-9; MRXE; XMRE; XPDS; HT028; MRXSH; MSTP009; APT6M8-9.		
Amino Acid Sequence	MKHHHHHHAS NEFSILKSPG SVVFRNGNWP IPGERIPDVA ALSMGFSVKE DLSWPGLAVG NLFHRPRATV MVMVKGVNKL ALPPGSVISY PLENAVPFSL DSVANSIHSL FSEETPVVLQ LAPSEERVYM VGKANSVFED LSVTLRQLRN RLFQENSVLS SLPLNLSLRN NEVDLLFLSE LQVLHDISSL LSRHKHLAKD HSPDLYSLEL AGLDEIGKRY GEDSEQFRDA SKILVDALQK FADDMYSLYG GNAVVELVTV KSFDTSLIRK TRTILEAKQA KNPASPYNLA YKYNFE.		
Solubility	It is recommended to add 200?l deionized water to prepare a working stock solution of approximately 0.5mg/ml and let the lyophilized pellet dissolve completely. ATP6AP2 is not sterile! Please filter the product by an appropriate sterile filter before using it in the cell culture.		
Formulation	ATP6AP2 filtered (0.4 μm) and lyophilized from 0.5mg/ml in 20mM Tris buffer and 50mM NaCl, pH 7.5.		

Introduction

ATPase Transporting Lysosomal Accessory Protein 2 (ATP6AP2) is a protein associated with triphosphatases (ATPases). Proton-translocating ATPases have vital roles in energy conservation, secondary active transport, acidification of intracellular compartments,

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

Product Data Sheet

and cellular pH homeostasis. ATP6AP2 is linked with the transmembrane sector of the V-type ATPases, which have a transmembrane proton-conducting sector and an extramembrane catalytic sector. ATP6AP2 serves as a renin and prorenin cellular receptor; it mediates renin-dependent cellular responses by activating ERK1 and ERK2. ATP6AP2 is expressed in the brain, heart, placenta, liver, kidney and pancreas. ATP6AP2 is hardly detectable in the lung and skeletal muscles. ATP6AP2 is also expressed in the vascular structures and by syncytiotrophoblast cells in the mature fetal placenta.

Stability

Store lyophilized protein at -20°C . Aliquot the product after reconstitution to avoid repeated freezing/thawing cycles. Reconstituted protein can be stored at 4°C for a limited period of time; it does not show any change after two weeks at 4°C .

Background

ATP6AP2 Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 296 amino acids including a 10 a.a N-terminal His tag. The total molecular mass is 33kDa (calculated).

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