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ATP6AP2 Human

ATPase Transporting Lysosomal Accessory Protein 2 Human Recombinant RCP0146

Product Overview

Name	ATP6AP2 Human

Description

ATPase Transporting Lysosomal Accessory Protein 2 Human Recombinant

Accession (Primary)	O75787

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.

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, 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.

Source

Escherichia Coli.

Physical Appearance

Filtered White lyophilized (freeze-dried) powder.

Formulation

ATP6AP2 filtered (0.4 µm) and lyophilized from 0.5mg/ml in 20mM Tris buffer and 50mM NaCl, pH 7.5.

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.

Purity

Greater than 90.0% as determined by SDS-PAGE.

Amino acid sequence

MKHHHHHHAS NEFSILKSPG SVVFRNGNWP IPGERIPDVA ALSMGFSVKE DLSWPGLAVG NLFHRPRATV MVMVKGVNKL ALPPGSVISY PLENAVPFSL DSVANSIHSL FSEETPVVLQ LAPSEERVYM VGKANSVFED LSVTLRQLRN RLFQENSVLS SLPLNSLSRN NEVDLLFLSE LQVLHDISSL LSRHKHLAKD HSPDLYSLEL AGLDEIGKRY GEDSEQFRDA SKILVDALQK FADDMYSLYG GNAVVELVTV KSFDTSLIRK TRTILEAKQA KNPASPYNLA YKYNFE.

Solubility

It is recommended to add 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.

Precautions

ATP6AP2 Human is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (O75787)