

Recombinant Full Length Human ATP1A4 Protein, GST-tagged

Cat. No. ATP1A4-1130HF **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human ATP1A4 full-length ORF (AAH28297, 1 a.a. - 165 a.a.) recombinant protein with GST-tag at N-terminal.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	165 amino acids
Description	The protein encoded by this gene belongs to the family of P-type cation transport ATPases, and to the subfamily of Na ⁺ /K ⁺ -ATPases. Na ⁺ /K ⁺ -ATPase is an integral membrane protein responsible for establishing and maintaining the electrochemical gradients of Na and K ions across the plasma membrane. These gradients are essential for osmoregulation, for sodium-coupled transport of a variety of organic and inorganic molecules, and for electrical excitability of nerve and muscle. This enzyme is composed of two subunits, a large catalytic subunit (alpha) and a smaller glycoprotein subunit (beta). The catalytic subunit of Na ⁺ /K ⁺ -ATPase is encoded by multiple genes. This gene encodes an alpha 4 subunit. Alternatively spliced transcript variants encoding different isoforms have been identified. [provided by RefSeq, Jul 2008]
Molecular Mass	43.89 kDa
AA Sequence	MIQALAGFFT YFVILAENG F RPVDLLGIRL HWEDKYLN DL EDSYGQQW TY EQRKVVEFT C QTAFFVTIV V VQWADLIISK TRRNSLFQQG MRNKVLIFGI

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LEETLLAAFL SYTPGMDVAL RMYPLKITWW LCAIPYSILI FVYDEIRKLL
IRQHPDGWVE RETYY

Applications

Enzyme-linked Immunoabsorbent Assay; Western Blot (Recombinant protein);
Antibody Production; Protein Array

Storage

Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

GENE INFORMATION

Gene Name

ATP1A4 ATPase Na⁺/K⁺ transporting subunit alpha 4 [Homo sapiens (human)]

Official Symbol

ATP1A4

Synonyms

ATP1A4; ATPase Na⁺/K⁺ transporting subunit alpha 4; ATP1A1; ATP1AL2;
sodium/potassium-transporting ATPase subunit alpha-4; ATPase, Na⁺/K⁺
transporting, alpha 4 polypeptide; ATPase, Na⁺/K⁺ transporting, alpha polypeptide-
like 2; Na(+)/K(+) ATPase alpha-4 subunit; Na⁺/K⁺ ATPase 4; Na⁺/K⁺ ATPase,
alpha-D polypeptide; Na,K-ATPase subunit alpha-C; sodium pump 4; sodium pump
subunit alpha-4; sodium-potassium ATPase catalytic subunit alpha-4;
sodium/potassium-transporting ATPase alpha-4 chain; EC 3.6.3.9

Gene ID

480

mRNA Refseq

NM_001001734

Protein Refseq

NP_001001734

MIM

607321

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UniProt ID

Q13733

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