

Recombinant Human ATP2B3 Protein, His-tagged

Cat. No. ATP2B3-267H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human ATP2B3 Protein (Thr1057-Leu1220) with N-His tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Thr1057-Leu1220
Description	The protein encoded by this gene belongs to the family of P-type primary ion transport ATPases characterized by the formation of an aspartyl phosphate intermediate during the reaction cycle. These enzymes remove bivalent calcium ions from eukaryotic cells against very large concentration gradients and play a critical role in intracellular calcium homeostasis. The mammalian plasma membrane calcium ATPase isoforms are encoded by at least four separate genes and the diversity of these enzymes is further increased by alternative splicing of transcripts. The expression of different isoforms and splice variants is regulated in a developmental, tissue- and cell type-specific manner, suggesting that these pumps are functionally adapted to the physiological needs of particular cells and tissues. This gene encodes the plasma membrane calcium ATPase isoform 3. Alternatively spliced transcript variants encoding different isoforms have been identified.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 22.1 kDa

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

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	Accurate Molecular Mass: 25 kDa
Purity	> 90%
Applications	Positive Control; Immunogen; SDS-PAGE; WB.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	PBS, pH7.4, containing 0.01% SKL, 1 mM DTT, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in sterile water to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	ATP2B3 ATPase, Ca++ transporting, plasma membrane 3 [Homo sapiens (human)]
Official Symbol	ATP2B3
Synonyms	ATP2B3; ATPase, Ca++ transporting, plasma membrane 3; plasma membrane calcium-transporting ATPase 3; plasma membrane calcium transporting ATPase 3; PMCA3; plasma membrane calcium pump; plasma membrane calcium ATPase; PMCA3a
Gene ID	492

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mRNA Refseq	NM_001001344
Protein Refseq	NP_001001344
MIM	300014
UniProt ID	Q16720

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