

PRODUCT DATA SHEET

Bioworld Technology CO., Ltd.



Na⁺/K⁺-ATPase α 2 (R1007) Peptide

Cat No.: BS3401P

Background

The ubiquitously expressed sodium/potassium-ATPase exists as an oligomeric plasma membrane complex that couples the hydrolysis of one molecule of ATP to the importation of three Na⁺ ions and two K⁺ ions against their respective electrochemical gradients. As a member of the P-type family of ion motives, sodium/potassium-ATPase plays a critical role in maintaining cellular volume, resting membrane potential and Na⁺-coupled solute transport. Multiple isoforms of three subunits, α , β and γ , comprise to form the sodium/potassium-ATPase oligomer. The α -subunit contains the binding sites for ATP and the cations. The glycosylated β -subunit ensures correct folding and membrane insertion of the α -subunits. The small γ -subunit colocalizes with the α -subunit in nephron segments where it increases the affinity of sodium/potassium ATPase for ATP. The β -subunit, but not the γ -subunit, is essential for normal activity of sodium/potassium ATPase.

Swiss-Prot

P50993

Applications

Blocking

Specificity

This peptide can be used with studies using BS3401 Na⁺/K⁺-ATPase α 2 (R1007) pAb.

Purification & Purity

Synthetic peptide Na⁺/K⁺-ATPase α 2 (R1007). (Note: the amino acid sequence is proprietary). The purity is > 98%.

Product

1 mg/ml in DI water.

Storage & Stability

Store at 4 °C short term. Aliquot and store at -20 °C long term. Avoid freeze-thaw cycles.

Research Use

For research use only, not for use in diagnostic procedure.

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