

Datasheet for ABIN5674661
ATP1A1 ELISA Kit



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Overview

Quantity:	96 tests
Target:	ATP1A1
Reactivity:	Human
Method Type:	Sandwich ELISA
Detection Range:	78.125 pg/mL - 5000 pg/mL
Minimum Detection Limit:	78.125 pg/mL
Application:	ELISA

Product Details

Sample Type:	Tissue Homogenate
Analytical Method:	Quantitative
Detection Method:	Colorimetric
Sensitivity:	26.6 pg/mL
Components:	Pre-coated, ready to use 96-well strip plate Standard (freeze dried) Standard Diluent Detection Reagent A Detection Reagent B Assay Diluent A Assay Diluent B TMB Substhumane

Product Details

Stop Solution
Wash Buffer(30 x concentrated)
Plate sealer for 96 wells
Instruction manual

Material not included:

1. Microplate reader with 450 ± 10 nm filter.
2. Precision single or multi-channel pipettes and disposable tips.
3. Eppendorf Tubes for diluting samples.
4. Deionized or distilled water.
5. Absorbent paper for blotting the microtiter plate.
6. Container for Wash Solution.

Target Details

Target: ATP1A1

Alternative Name: ATPase, Na⁺/K⁺ Transporting Alpha 1 Polypeptide (ATP1a1) ([ATP1A1 Products](#))

Background: Alternative name: Sodium pump subunit alpha-1, Na⁽⁺⁾/K⁽⁺⁾ ATPase alpha-1 subunit, Sodium/potassium-transporting ATPase subunit alpha-1

Gene ID: 476

UniProt: [P05023](#)

Pathways: [Thyroid Hormone Synthesis](#), [Regulation of Hormone Metabolic Process](#), [Regulation of Hormone Biosynthetic Process](#), [Proton Transport](#), [Ribonucleoside Biosynthetic Process](#)

Application Details

Application Notes: Optimal working dilution should be determined by the investigator.

Assay Time: 1 - 4.5 h

Plate: Pre-coated

Protocol:

1. Prepare all reagents, samples and standards
2. Add 100µL standard or sample to each well. Incubate 2 hours at 37°C
3. Aspirate and add 100µL prepared Detection Reagent A. Incubate 1 hour at 37°C
4. Aspirate and wash 3 times
5. Add 100µL prepared Detection Reagent B. Incubate 1 hour at 37°C
6. Aspirate and wash 5 times
7. Add 90µL Substrate Solution. Incubate 15-25 minutes at 37°C

Application Details

8. Add 50 μ L Stop Solution. Read at 450nm immediately.

Restrictions: For Research Use only

Handling

Storage: 4 °C

Expiry Date: 12 months