

Product Datasheet

ATPase Assay Kit (Colorimetric)

601-0122

Unit Size: 5 x 480 Tests

Storage of components varies. See protocol for specific instructions.

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601-0122**ATPase Assay Kit (Colorimetric)**

| Product Information | |
|------------------------------------|---|
| Unit Size | 5 x 480 Tests |
| Concentration | Concentration is not relevant for this product. Please see the protocols for proper use of this product. |
| Storage | Storage of components varies. See protocol for specific instructions. |
| Product Description | |
| Description | <p>This non radioactive colorimetric assay kit contains all the necessary reagents for measuring enzyme activity (everything included in the PiColorlock kit and more) and is ideal for high throughput drug screening.</p> <p>The kits contain PiColorlock, a non-radioactive, superior phosphate detection reagent.</p> <p>Key Features of PiColorLock:</p> <ul style="list-style-type: none"> • Colorimetric Assay-competitor assays are radioactive. • Special additive ensures low backgrounds with acid-labile substrates. • Unparalleled stability of phosphate-dye complexes. • Reagent is compatible with almost any assay buffer. • No inhibition of color development by high concentrations of protein. • Stable reagent formulation - long shelf life. <p>Colorimetric assays for ATPases are invariably based on the formation of colored complexes between an inorganic phosphate and a dye molecule under acidic conditions.</p> |
| Gene ID | 1769 |
| Gene Symbol | DNAH8 |
| Kit Components | 1 x 10 ml of PiColorLock (1 x 25 ml), 1 x 0.25 ml of Accelerator (1 x 0.5 ml), 1 x 5 ml of Stabiliser (1 x 10 ml), 1 x 1.5 ml of 0.1M MgCl ₂ (2 x 1.5 ml), 1 x 5 ml of 0.5M Tris pH 7.5 (1 x 10 ml), 1 x 5 ml of 0.1mM Pi standard (1 x 10 ml), 4 vials of lyophilized ATP (10 vials), 2 x 96-well plates (5 plates) |
| Notes | <p>This product is manufactured by Innova Biosciences.</p> <p>This product is manufactured by Expedeon Inc. and distributed by Novus Biologicals.</p> |
| Product Application Details | |
| Applications | In vitro assay |
| Recommended Dilutions | In vitro assay Na ⁺ /K ⁺ -ATPase activity determination (PMID: 21304972) |

Publications

Sarraf NS, Shi R, McDonald L et al. Suramin Inhibits Hsp104 ATPase and Disaggregase Activity. PLoS One 2014-01-01 [PMID: 24945826]

Xiao X, Yang J, Li R et al. A helminth cathelicidin-like protein suppresses antigen processing and presentation in macrophages via inhibition of lysosomal vATPase. FASEB J. 2014-01-01 [PMID: 24391795]

Robinson MW, Alvarado R, To J et al. Physiological and biochemical characteristics of laboratory induced mutants of *Botrytis cinerea* with resistance to fluazinam. FASEB J. 2014-01-01 [PMID: 22872675]

Matos M, Augusto E, Agostinho P et al. Antagonistic Interaction between Adenosine A2A Receptors and Na⁺/K⁺-ATPase- α 2 Controlling Glutamate Uptake in Astrocytes. J Neurosci 2013-01-01 [PMID: 24259572]

Luo H, Xu HQ, Chen X et al. Potent in vitro Interference of Fleroxacin in DNA-binding, Unwinding and ATPase Activities of Bloom Helicase. Biomed Environ Sci. 2013-01-01 [PMID: 23534463]

Bruchmann A, Roller C, Walther TV et al. Bcl-2 associated athanogene 5 Bag5 is overexpressed in prostate cancer and inhibits ER-stress induced apoptosis. BMC Cancer 2013-01-01 [PMID: 23448667]

Ronchi D, Di Fonzo A, Lin W et al. Mutations in DNA2 Link Progressive Myopathy to Mitochondrial DNA Instability. Am J Hum Genet. 2013-01-01 [PMID: 23352259]

Choi CH1, Spooner R, DeGuzman J et al. *P. gingivalis*-Nucleoside-diphosphate-kinase Inhibits ATP-Induced Reactive-Oxygen-Species via P2X7 Receptor / NADPH-Oxidase Signaling and Contributes to Persistence. Cell Microbiol. 2013-01-01 [PMID: 23241000]

Details:

Porphyromonas gingivalis

Baker N, Zhang G, You Y, Tuan R. Caveolin-1 regulates proliferation and osteogenic differentiation of human mesenchymal stem cells. J Cell Biochem 2012-01-01 [PMID: 22807396]

Podhajska A, Musso A, Trancikova A et al. Common Pathogenic Effects of Missense Mutations in the P-Type ATPase ATP13A2 PARK9 Associated with Early-Onset Parkinsonism. PLoS One 2012-01-01 [PMID: 22768177]

Wallden K, Williams R, Yan J et al. Structure of the VirB4 ATPase, alone and bound to the core complex of a type IV secretion system. PNAS 2012-01-01 [PMID: 22745169]

Bartoszewska M, Williams C, Kikhney A et al. Peroxisomal proteostasis involves a Lon family protein that functions as protease and chaperone. J Biol Chem. [PMID: 22733816]

Details:

Penicillium chrysogenum

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Novus Biologicals USA

10730 E. Briarwood Avenue
Centennial, CO 80112
USA
Phone: 303.730.1950
Toll Free: 1.888.506.6887
Fax: 303.730.1966
novus@novusbio.com

Bio-Techne Canada

21 Canmotor Ave
Toronto, ON M8Z 4E6
Canada
Phone: 905.827.6400
Toll Free: 855.668.8722
Fax: 905.827.6402
canada.inquires@bio-techne.com

Bio-Techne Ltd

19 Barton Lane
Abingdon Science Park
Abingdon, OX14 3NB, United Kingdom
Phone: (44) (0) 1235 529449
Free Phone: 0800 37 34 15
Fax: (44) (0) 1235 533420
info.EMEA@bio-techne.com

General Contact Information

www.novusbio.com
Technical Support: technical@novusbio.com
Orders: orders@novusbio.com
General: novus@novusbio.com

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