

Product Datasheet

ATPase Activity Kit (Colorimetric) 601-0120

Unit Size: 2 x 96 Tests

Storage of components varies. See protocol for specific instructions.

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601-0120**ATPase Activity Kit (Colorimetric)**

Product Information	
Unit Size	2 x 96 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.
Buffer	
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
Specificity/Sensitivity	Na ⁺ /K ⁺ -ATPase activity determination (PMID: 21304972)
Kit Components	1 x 1.5 ml of 0.1M MgCl ₂ (2 x 1.5 ml), 1 x 10 ml of PiColorLock (1 x 10ml), 2 x 96-well plates, 4 vials of lyophilized ATP (4 vials), 1 x 5 ml of 0.1mM Pi standard (1 x 5ml), 1 x 5ml of 0.5M Tris PH 7.5 (1x 5ml), 1 x 5ml of Stabilizer (1 x 5ml), 1 x 0.5ml of Accelerator (1 x 0.5ml)
Notes	<p>This product is manufactured by Abcam and distributed by Novus Biologicals.</p> <p>This product is for research use only and is not approved for use in humans or in clinical diagnosis. This product is guaranteed for 1 year from date of receipt and this statement overrides any mentioned guarantee period on the limitations section of this products datasheet. Please contact technical@novusbio.com with questions.</p>
Product Application Details	
Applications	In vitro assay
Recommended Dilutions	In vitro assay

Publications

Ma L, Zou R, Shi W et al. SGLT2 inhibitor dapagliflozin reduces endothelial dysfunction and microvascular damage during cardiac ischemia/reperfusion injury through normalizing the XO-SERCA2-CaMKII-coffilin pathways Theranostics 2022-06-27 [PMID: 35836807] (Block/Neutralize)

Shiryayev SA, Chernov AV, Aleshin AE et al. NS4A regulates the ATPase activity of the NS3 helicase a novel cofactor role of the non-structural protein NS4A from West Nile virus. J Gen Virol. 2009-01-01 [PMID: 19474250] (EnzAct, Bacteria)

Details:
Staphylococcus aureus

Stauff DL, Bagaley D, Torres VJ et al. Staphylococcus Aureus HrtA Is an ATPase Required for Protection Against Heme Toxicity and Prevention of a Transcriptional Heme Stress Response . J Bacteriol. 2008-01-01 [PMID: 18326576] (EnzAct, Bacteria)

Details:
Staphylococcus aureus

Kumari A, Minko IG, Smith RL et al. Modulation of UvrD Helicase Activity by Covalent DNA-Protein Cross-links. J Biol Chem. [PMID: 20444702] (EnzAct, E. coli)

Details:
West Nile Virus

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] (EnzAct, Bacteria)

Details:
Porphyromonas gingivalis

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] (EnzAct, Bacteria)

Details:
Penicillium chrysogenum

Cheng WL, Kao YH, Chao TF et al. MicroRNA-133 suppresses ZFH3-dependent atrial remodelling and arrhythmia Elife 2019-06-01 [PMID: 31152485]

Huerta-Urbe A, Marjenberg ZR, Yamaguchi N et al. Identification and Characterization of Novel Compounds Blocking Shiga Toxin Expression in Escherichia coli O157:H7. Front Microbiol. 2016-11-30 [PMID: 27965652]

Sheng Y, Yang X, Lian Y et al. Characterization of a cadmium resistance Lactococcus lactissubsp. lactis strain by antioxidant assays and proteome profiles methods. Environ Toxicol Pharmacol. 2016-01-01 [PMID: 27522548]

Kristensen ML, Kierulf-Lassen C, Nielsen PM et al. Remote ischemic preconditioning attenuates ischemia/reperfusion-induced downregulation of AQP2 in rat kidney. Physiol Rep. 2016-01-01 [PMID: 27405971]

Liu T, Wan L, Wu Y, Chen J et al. hSWS1 SWSAP1 Is an Evolutionarily Conserved Complex Required for Efficient Homologous Recombination Repair. J Biol Chem. 2011-12-02 [PMID: 21965664]

Zadorozhny K, Sannino V, Belan O et al. Fanconi-Anemia-Associated Mutations Destabilize RAD51 Filaments and Impair Replication Fork Protection. Cell Rep. 2017-10-10 [PMID: 29020621]

More publications at <http://www.novusbio.com/601-0120>





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Limitations

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