CREATIVE BIOMART®
Assay Kit

# 5'-Nucleotidase (CD73)Activity Assay Kit (Colorimetric)

## Product Information

**Cat**

Kit-1034

**Common Name**

CD73

**Cat.No.**

Kit-1034

**Description**

5'-Nucleotidase (5'-NT), also known at CD73 (EC 3.1.3.5) is an enzyme located in the plasma membrane. It converts extracellular nucleotides like 5'-AMP to their corresponding nucleosides, through phosphorylitic cleavage. This conversion facilitates uptake of the nucleosides through nucleoside receptors into the cell, where they can again be phosphorylated to generate nucleotides and contribute to the nucleotide pool, inside the cell. 5'-NT levels are elevated in hepatic diseases such as viral hepatitis, alcoholic liver disease and cirrhosis. 5'-Nucleotidase Activity Kit is a simple two-step end point assay that relies on the Berthelot's test for quantification of ammonia. In this assay, the action of 5'-nucleotidase on the substrate generates a product, which releases ammonia in presence of the converter. Developer I and II are then used to quantify the released ammonia through increase in absorbance at 670 nm. This assay can detect as low as 0.2 mU of 5'-NT. Since non-specific enzymes like alkaline phosphatase can give a positive signal in this assay, 5'-NT inhibitor may be used to completely inhibit 5'-nucleotidase and distinguish from the signal from non-specific enzymes. The assay kit also includes 5'- Nucleotidase (5'-NT) enzyme for use as positive control.

**Applications**

Measurement of 5'-Nucleotidase activity in various tissues/cells

**Storage**

-20°C

Tel: 1-631-559-9269 1-516-512-3133
Email:info@creative-biomart.org
Fax:1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

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|---|---|
| **Shipping** | |
| Gel Pack | |
| **Size** | |
| 100 assays | |
| **Kit Components** | |
| 5-NT Assay Buffer; 5-NT Substrate; 5-NT Convertor; 5-NT Inhibitor; 5-NT Stop Solution; 5-NT Developer I; 5-NT Developer II; NH4+ Standard (100 mM); 5-NT Positive Control | |
| **Target Species** | |
| Mammalian | |
| **Detection method** | Colorimetric (OD 670 nm) |
| **Features & Benefits** | |
| Simple, highly sensitive, high-throughput compatible | |

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