# Pyruvate Dehydrogenase Activity Assay

## A plate based simple, sensitive colorimetric assay to measure Pyruvate Dehydrogenase (PDH) activity with a sensitivity limit below 50 µU.

Pyruvate Dehydrogenase (PDH), a multienzyme complex, catalyzes the oxidative decarboxylation of pyruvate, producing acetyl-CoA, NADH and CO2. PDH connects the TCA cycle and oxidative phosphorylation to glycolysis, gluconeogenesis, and lipid and amino acid metabolic pathways. The activity of PDH is regulated through reversible phosphorylation of the E1-alpha subunit at specific serine sites. Phosphorylation, catalyzed by PDH kinases 1-4, decreases PDH activity. Dephosphorylation, catalyzed by PDP1 and 2, restores PDH activity. Multiple regulatory signals control PDH activity. Dysregulation is associated with metabolic disorders like diabetes, obesity and cancer. Genetic defects in the PDH complex lead to lactic acidosis and Leigh's disease among others. AkrivisBio's Pyruvate Dehydrogenase Activity Assay is a simple, sensitive way to measure PDH activity with a sensitivity limit below 50 µU.

## Ordering Information

Order Online »

| | |
|---|---|
| **AKR-MA-0166** | 100 wells |

## Manuals, SDS & CofA

View Online »

## Handling & Storage

| | |
|---|---|
| **Long Term Storage** | -20°C |
| **Shipping** | Blue Ice |

## Regulatory Status

RUO - Research Use Only

## Product Details

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|---|---|
| **Application** | Colorimetric detection |
| **Species Reactivity** | Species independent |
| **Technical Info / Product Notes** | For the Original Manufacturer's data sheet please click here. |

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