CREATIVE BIOMART®
Assay Kit

Alpha-Ketoglutarate Dehydrogenase Activity Assay Kit

Product Information

Product Overview

Significance: a-KGDH is a key mitochondrial enzyme in the TCA cycle, catalyzing oxidative decarboxylation of a-ketoglutarate to succinyl-CoA.
Principle: a-KGDH catalyzes a-ketoglutarate, NAD⁺, and CoA to produce succinyl-CoA, CO₂, and NADH. NADH formation is monitored at 340 nm to determine enzyme activity.

Size

50t/48s

Storage

Store at -20 °C. Shelf life: 6 months.

Detection method Ultraviolet Spectrophotometry

Materials Required but Not Supplied

UV spectrophotometer, water bath, bench-top centrifuge, adjustable micropipettes, 1 mL quartz cuvettes, mortar and pestle, ice, distilled water.

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