CREATIVE BIOMART®
Assay Kit

# Aconitase Activity Colorimetric Assay Kit

## Product Information

**Cat**

Kit-2265

**Cat.No.** Kit-2265

**Product Overview**

Aconitase (aconitate hydratase; EC 4.2.1.3) is an iron-sulfur protein containing an [Fe;S;]2; cluster that catalyzes the stereospecific isomerization of citrate to isocitrate via cis-aconitate in the tricarboxylic acid cycle, a non-redox-active process. Tissue contains two aconitases, a mitochondrial (m-) and a cytosolic (c-) aconitase. They are related, but distinctly different enzymes and are coded for on different chromosomes. Loss of aconitase activity in cells or other biological samples treated with pro-oxidants has been interpreted as a measure of oxidative damage. Aconitase Assay Kit is a highly sensitive, simple, direct and HTS-ready colorimetric assay for measuring Aconitase activity in biological samples. In the assay, citrate is converted by aconitase into isocitrate, which is further processed resulting in a product that converts a nearly colorless probe into an intensely colored form with a λmax at 450nm.

**Storage**

4°C

**Shipping**

Gel Pack

**Size**

100 assays

**Kit Components**

Assay Buffer; Substrate; Developer; Enzyme Mix (200μl); Cysteine; (NH4)2Fe(SO4)2; Isocitrate Standard (10μmol)

**Target Species**

Mammalian

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# Aconitase Activity Colorimetric Assay Kit

| | |
|---|---|
| **Detection method** | Absorbance at 450 nm |
| **Features & Benefits** | |
| Simple procedure; takes ~ less than 40 minutes; Fast and convenient | |

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