



## 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]<sub>2</sub> 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  $\lambda_{max}$  at 450nm.

**Storage**

4°C

**Shipping**

Gel Pack

**Size**

100 assays

**Kit Components**

Assay Buffer; Substrate; Developer; Enzyme Mix (200 $\mu$ l); Cysteine; (NH<sub>4</sub>)<sub>2</sub>Fe(SO<sub>4</sub>)<sub>2</sub>; Isocitrate Standard (10 $\mu$ mol)

**Target Species**



CREATIVE **BIOMART**<sup>®</sup>  
Assay Kit

## Aconitase Activity Colorimetric Assay Kit

Mammalian

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**Detection method** Absorbance at 450 nm

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### Features & Benefits

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Simple procedure; takes ~ less than 40 minutes; Fast and convenient

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