

Aconitase Activity Colorimetric Assay Kit

Cat. No. Kit-2265 **Lot. No.** (See product label)

SPECIFICATION

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 λ_{max} 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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Detection method	Absorbance at 450 nm
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Features & Benefits	Simple procedure; takes ~ less than 40 minutes; Fast and convenient
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