CREATIVE BIOMART®
Assay Kit

alpha-Ketoglutarate Assay Kit

Product Information

Cat.No. Kit-0855

Product Overview

alpha-Ketoglutarate Assay Kit is used for quantifying alpha-KG.

Description

a-Ketoglutarate (a-KG) is a key intermediate in the Krebs cycle, coming after isocitrate and before succinyl CoA. Anaplerotic reactions replenish the cycle by synthesizing a-KG from transamination of glutamate, or through the action of glutamate dehydrogenase. a-KG is an important nitrogen transporter. Being a key intermediate, it is one of the organic acids measured in newborns as an indicator of inborn errors of metabolism. The a-Ketoglutarate Assay Kit provides a simple, sensitive and rapid means for quantifying a-KG in a variety of samples. In the assay, a-ketoglutarate is transaminated with the generation of pyruvate which is utilized to convert a nearly colorless probe to both color (λmax = 570 nm) and fluorescence (Ex/Em = 535/587 nm). The a-Ketoglutarate Assay Kit is useful for detecting a-ketoglutarate in the range of 0.01 to 10 nmoles.

Target Species

Mammals

Usage

For research use only (RUO)

Storage

Store kit at -20°C, protect from light. Warm a-KG Assay Buffer to room temperature before use. Briefly centrifuge all small vials prior to opening.

Kit Components

a-KG Assay Buffer 25 mla-KG OxiRed Probe (in DMSO) 0.2 mla-KG Converting Enzyme (lyophilized) 1 viala-KG Development Enzyme Mix (lyophilized) 1 viala-KG Standard (10 µmol, lyophilized) 1 vial

Detection method Colorimetric, Fluorometric

Compatible Sample Types

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alpha-Ketoglutarate Assay Kit

Biological Fluid, Cell Culture Supernatant, Plasma, Serum, Tissue Culture Supernatant, Urine

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