CREATIVE BIOMART®
Assay Kit

Fluoro Sarcosine Detection Kit

Product Information

Cat.No. Kit-0775

Product Overview

Fluoro Sarcosine assay provides a reliable, sensitive fluorimetric method for the quantification of sarcosine in biological samples. The Fluoro Sarcosine detection kit utilizes a non-fluorescent detection reagent, which is reduced via an enzyme-coupled reaction in the presence of sarcosine. A sarcosine standard curve is generated to quantify sarcosine in the samples.

Description

Sarcosine is natural amino acid that is an important intermediate in the metabolism of choline. Sarcosine is an important component of proteins and plays a significant role in metabolic processes of living cells as a source of serine, creatine, purines and glutathione etc. Sarcosine is present in food sources like legumes, eggs, ham, turkey etc. It is used in a variety of industrial applications such as manufacturing of tooth paste and biodegradable surfactants. Sarcosine was recently reported to activate prostate cancer cells and as a possible marker for prostate cancer progression to metastasis. It is also used in adjunctive treatment for Schizophrenia and depression. Fluoro Sarcosine assay provides a reliable, sensitive fluorimetric method for the quantification of sarcosine in biological samples. The Fluoro Sarcosine detection kit utilizes a non-fluorescent detection reagent, which is reduced via an enzyme-coupled reaction in the presence of sarcosine. A sarcosine standard curve is generated to quantify sarcosine in the samples.

Applications

1. Detection of sarcosine in cells or tissue extracts.2. Detection sarcosine in serum.

Usage

1. For Research use only. Not for use in diagnostic procedures.2. Practice safe laboratory procedures by wearing gloves, protective clothing and eyewear.3. The reaction is not stable in the presence of thiols (DTT or 2-mercaptoethanol). Keep these reactants below 10µM. 4. Once the vial of Part 4023 sarcosine detection reagent is reconstituted, it is important that low lighting conditions be used while aliquoting as well as performing the experiment. Direct and prolonged light exposure may increase the background, resulting in compromised linearity.

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Storage

1. Upon arrival store the following components at -20°C.: Various-please see kit components above for specific storage conditions.4. Upon Arrival: Store contents as labeled.

Kit Components

1. Enzyme Mix: 1 Vial, -20°C;2. Standard Curve Diluent: 40mL, 2-8°C;3. Sarcosine Detection Reagent: 1 Vial, 2-8°C;4. Sarcosine Standard: 1 Vial, 2-8°C

Features & Benefits

1. Easy to Use-No Wash Assay.2. Detection of Sarcosine in cells, serum, tissue extracts..3. Easy to Use 96-well Fluorescent Plate reader readout.

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