CREATIVE BIOMART®
Assay Kit

D-Lactate Fluorometric Assay Kit

Product Information

Cat

Kit-2205

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Product Overview

D-Lactate is the result of anaerobic glycolysis by microorganisms in the gastrointestinal system, and the product of detoxification of methylglyoxal by the glyoxalase system. The presence of abnormal levels of D-Lactate has been linked to a series of pathological conditions, such as diabetes, and appendicitis. D-Lactate Assay kit offers simplicity, sensitivity, and can be adapted to high-throughput research. The assay enzymatically oxidizes D-Lactate generating a fluorescent signal (Ex/Em = 535/587 nm). The signal is directly proportional to the amount of D-Lactate. The assay kit can detect samples containing as low as 0.1 μM D-Lactate.

Applications

Measurement of D-Lactate in various tissues/cells/biological fluids. Analysis of D-Lactate in pathological conditions. Mechanistic study of the glyoxalase system.

Storage

-20°C

Shipping

Gel Pack

Size

100 assays

Kit Components

D-Lactate Assy Buffer; (in DMSO); D-Lactate Enzyme Mix (Lyophilized); D-Lactate Substrate Mix (Lyophilized); D-Lactate Standard (100 mM)

Detection method Fluorescence (Ex/Em= 535/587 nm)

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Features & Benefits

Simple, highly sensitive, and high-throughput adaptable.
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