CREATIVE BIOMART®
Assay Kit

?-L-Fucosidase Activity Assay Kit (Fluorometric)

Product Information

Cat

Kit-1019

Common Name

Fucosidase

Cat.No. Kit-1019

Description

a-L-Fucosidase (EC 3.2.1.51) (FUCA1) is a hydrolase that is able to cleave the a-L-fucosyl moieties from glycoconjugates and oligosaccharides. Fucosidase plays a pivotal role in cell differentiation, apoptosis, inflammation and host-pathogen interaction. Furthermore, abnormal concentrations of this glycosidase have been observed in patients suffering from cancer, fucosidosis, rheumatoid arthritis, cystic fibrosis, and leukocyte adhesion deficiency. Industrial applications of FUCA1 include synthesis of fucosylated analogs that could serve as antiadhesion compounds, cancer vaccines, and anti-inflammatory therapeutics. a-L-Fucosidase Assay Kit provides a simple, sensitive and high-throughput adaptable approach to detect physiological concentrations of this glycosidase in a variety of biological samples. In this assay, FUCA1 uses a synthetic 4-MUF substrate and releases a fluorescent methylumbelliferyl derivative (4-MU) that can be measured kinetically under acidic conditions (Ex/Em = 330/450 nm). The assay is a single-step reaction, with minimal sample preparation. The assay can detect less than 1 μU/ml of FUCA1 activity in serum samples.

Applications

Estimation of FUCA1/AFU in various biological samples.

Storage

-20°C

Shipping

Gel Pack

Size

Tel: 1-631-559-9269 1-516-512-3133

Email:info@creative-biomart.org

Fax:1-631-938-8127

45-1 Ramsey Road, Shirley, NY 11967, USA

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100 assays

Kit Components

FUCA1 Assay Buffer; FUCA1 Substrate (in DMSO); DTT (1 M); FUCA1 Positive Control; 4-MU Standard (5 mM in DMSO)

Target Species

Mammalian

Detection method Fluorescence (Ex/Em= 330/450 nm)

Features & Benefits

Simple, fast and convenient assay; Can detect as low as 1 μU/ml of a-L-Fucosidase activity in a variety of samples.

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