CREATIVE BIOMART®
Assay Kit

?-L-Fucosidase (FUCA1) Assay Kit (Colorimetric)

Product Information

Cat

Kit-1016

Common Name

Fucosidase

Cat.No. Kit-1016

Description

a-L-Fucosidase (EC 3.2.1.51) (FUCA1) is a hydrolase that is able to cleave a-L-fucosyl moieties from glycoconjugates and oligosaccharides. Fucosidase plays pivotal roles 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 a-L-Fucosidase (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, a-L-Fucosidase uses a synthetic chloro p-nitrophenol derivative (R-pNP) as an a-L-Fucosidase substrate and releases a chlorinated pNP derivative which can be measured kinetically under acidic conditions (OD 405 nm). The assay involves a one-step simple reaction, with minimal sample preparation and does not need a stop solution to complete the reaction. The assay can detect as low as 20 μU of a-L-Fucosidase activity in a variety of samples.

Applications

Estimation of FUCA1/AFU in various biological samples.

Storage

-20°C

Shipping

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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Assay Kit

?-L-Fucosidase (FUCA1) Assay Kit (Colorimetric)

Gel Pack

Size

100 assays

Kit Components

FUCA1 Assay Buffer; FUCA1 Substrate; pNP Standard (10 mM); DTT (1 M); FUCA1 Positive Control

Target Species

Mammalian

Detection method Absorbance (OD = 405 nm).

Features & Benefits

Simple, fast and convenient assay;
Can detect as low as 20 μU of a-L-Fucosidase activity in a variety of samples.

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