CREATIVE BIOMART®
Assay Kit

?-L-Fucosidase Assay Kit

Product Information

Cat.No. Kit-2074

Product Overview

The non-radioactive, colorimetric AFU assay is based on the cleavage of 4-nitrophenol from the synthetic substrate. Nitrophenolbecomes intensely colored after addition of the stop reagent. The increase in absorbance at 405 nm after addition of the stop reagent is directly proportional to the enzyme activity.

Size

100 tests

Description

a-L-FUCOSIDASE (AFU) is an enzyme coded by the FUCA1 gene in humans and catalyzes the breakdown of L-Fucose. A genetic deficiency in this enzyme results in a neurovisceral storage disease, fucosidosis, which is characterized by the accumulation of fucose. Low serum activity of fucosidase has also been linked to ovarian caricinoma. Elevated fucosidase serum activity has been observed in patients with diabetes, hyperthyroidism, cirrhosis, and hepatitis. Increased activity has been associated with lung, breast, stomach, ovary, uterus, and liver carcinomas.

Applications

For quantitative determination of a-L-Fucosidase activity in biological samples (e.g. plasma, serum, tissue, cell lysate, etc.)

Storage

The kit is shipped at room temperature. Store all components at 4°C upon receiving. Shelf life: 6 months after receipt.

Kit Components

Substrate Buffer: 10 mL Stop Reagent: 12 mLStandard: 1 mL 12.5 mM Nitrophenol

Detection method OD405nm

Compatible Sample Types

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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Plasma, serum, tissue, cell lysate, etc.

Features & Benefits

• High sensitivity and wide linear range. Linear detection range (10 μL sample): 1 to 100 U/L. • Homogeneous and simple procedure. Simple add-mix-read procedure allows reliable quantitation of fucosidase activity within 20 minutes.• Robust and amenable to HTS. All reagents are compatible with high-throughput liquid handling instruments. Can be readily automated to measure thousands of samples per day.

Assay time

20 min

Sensitivity

Detection Limit: 1 U/L

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