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

Cat. No. Kit-1016 **Lot. No.** (See product label)

SPECIFICATION

Product Overview	
Description	α-L-Fucosidase (EC 3.2.1.51) (FUCA1) is a hydrolase that is able to cleave α-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 α-L-Fucosidase (FUCA1) include synthesis of fucosylated analogs that could serve as antiadhesion compounds, cancer vaccines, and anti-inflammatory therapeutics. α-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, α-L-Fucosidase uses a synthetic chloro p-nitrophenol derivative (R-pNP) as an α-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 α-L-Fucosidase activity in a variety of samples.
Applications	Estimation of FUCA1/AFU in various biological samples.
Storage	-20°C
Shipping	Gel Pack

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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 α-L-Fucosidase activity in a variety of samples.

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