

α-L-Fucosidase Assay Kit

Cat. No. Kit-2074 **Lot. No.** (See product label)

SPECIFICATION

Product Overview	The non-radioactive, colorimetric AFU assay is based on the cleavage of 4-nitrophenol from the synthetic substrate. Nitrophenol becomes 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	α-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 carcinoma. 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 α-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 mL Standard: 1 mL 12.5 mM Nitrophenol
Detection method	OD405nm

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

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

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

Compatible Sample Types	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

 Tel: 1-631-559-9269 1-516-512-3133 Email: info@creative-biomart.com  Fax: 1-631-938-8127 45-1 Ramsey Road, Shirley, NY 11967, USA