Creative Enzymes®

Native α-1,2-Fucosidase solution

Cat. No. NATE-0259

Lot. No. (See product label)

Introduction

Description Tissue alpha-L-fucosidase is an enzyme that in humans is encoded by the FUCA1 gene. Alpha-Fucosidase is an enzyme that breaks down fucose. Fucosidosis is an autosomal recessive lysosomal storage disease caused by defective alpha-L-fucosidase with accumulation of fucose in the tissues. Different phenotypes include clinical features such as neurologic deterioration, growth retardation, visceromegaly, and seizures in a severe early form; coarse facial features, angiokeratoma corporis diffusum, spasticity and delayed psychomotor development in a longer surviving form; and an unusual spondylometaphyseoepiphyseal dysplasia in yet another form.

Synonyms α-1,2-Fucosidase; alpha-L-fucosidase; Alpha-Fucosidase; FUCA1; FUCA; 9037-65-4

Product Information

Form buffered aqueous solution, Solution in 20 mM Tris-HCl, pH 7.5, 25 mM NaCl

EC Number EC 3.2.1.51

CAS No. 9037-65-4

Activity > 0.4 units/mg protein

Pathway Lysosome, organism-specific biosystem; Other glycan degradation, organism-specific biosystem

Function alpha-L-fucosidase activity; carbohydrate binding

Unit Definition One unit will release 1.0 µmole of fucose from 2′-fucosyllactose per min at pH 5.0 at 37°C

Usage and Packaging

Package vial of 0.004 unit

Storage and Shipping Information

Storage 2-8°C