Creative Enzymes®

α(1-3,4) Fucosidase from Sweet almond, Recombinant

Cat. No. NATE-1264

Lot. No. (See product label)

Introduction

Description	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-L-fucoside fucohydrolase; Alpha-Fucosidase; FUCA1; FUCA; EC 3.2.1.51

Product Information

Species	Sweet almond tree
Source	Pichia pastoris
Form	20 mM Tris-HCl (pH 7.5), 50 mM NaCl and 1 mM EDTA
Molecular Weight	56000 daltons
Activity	75,000 units/mg
Concentration	4,000 units/ml
Unit Definition	One unit is defined as the amount of enzyme required to cleave > 95% of the α-fucose from 1 nmol of Galβ1-4GlcNAcβ1-3(Fucα1-3)Galβ1- 4Glc-7-amino-4-methyl-coumarin (AMC), in 1 hour at 37°C in a total reaction volume of 10 µl.

Storage and Shipping Information

Storage	4°C