

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 spondylometaphyseal dysplasia in yet another form.

Synonyms

α -L-fucoside fucosidase; 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 Gal β 1-4GlcNAc β 1-3(Fuc α 1-3)Gal β 1-4Glc-7-amino-4-methylcoumarin (AMC), in 1 hour at 37°C in a total reaction volume of 10 μ l.

Storage and Shipping Information

Storage

4°C