Creative Enzymes®

α-Galactosidase from Cellvibrio mixtus, Recombinant

Cat. No. NATE-1175

Lot. No. (See product label)

Introduction

Description	Alpha-galactosidase is a glycoside hydrolase enzyme that hydrolyses the terminal alpha-galactosyl moieties from glycolipids and glycoproteins. It is encoded by the GLA gene. Two recombinant forms of alpha-galactosidase are called agalsidase alfa (INN) and agalsidase beta (INN).
Synonyms	Alpha-Galactosidase; Galactosidase; EC 3.2.1.22; GLA; GALA; melibiase; α-D-galactosidase; α-galactosidase A; α-galactoside galactohydrolase

Product Information

Source	Cellvibrio mixtus ATCC 12120
Form	Lyophilised powder
EC Number	EC 3.2.1.22
CAS No.	9025-35-8
Molecular Weight	44582.3 Da
Purity	> 95 % as judged by SDS-PAGE
Activity	150 U/mg
Optimum pH	8.5
Optimum temperature	37°C
Unit Definition	One unit is defined as the amount of enzyme required to release 1 μmol of p-nitrophenol per minute from p-nitrophenyl-α-D-Dgalactopyranoside (1 mM in the assay) in 25 mM Tris-HCl buffer, Ph 8.5, at 37°C.

Usage and Packaging

Preparation Instructions	Dissolve to 1 mg/mL in 25 mM Tris-HCl, pH 8.5, 20 mM NaCl and aliquot for storage at -20°C. The enzyme should be stable for 6 months when stored in this manner. α-Galactosidase 27A (GH27), in the lyophilized form, will remain stable up to 3 years if stored as specified.

Storage and Shipping Information

Storage	Store at 4°C (shipped at room temperature)