

## 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)