

Isoamylase from *Pseudomonas* sp.

I1506384

Storage

Store at 2-8°C long term. Upon receipt, it is recommended to aliquot. Do not freeze.

Introduction

EC: 3.2.1.68.

Synonyms: isoamylase; glycogen 6- α -D-glucanohydrolase.

CAZy Family: GH13.

CAS: 9067-73-6.

Properties

1. ELECTROPHORETIC PURITY:

- Single major band on SDS-gel electrophoresis (MW = 71,500).
- Single major band on isoelectric focusing (pI = 5.0).

2. SPECIFICITY:

Hydrolysis of (1,6)- α -D-glucosidic branch linkages in glycogen, amylopectin and their β -limit dextrins.

3. PHYSICOCHEMICAL PROPERTIES:

Recommended conditions of use are at pH 4.0 and up to 40°C.

pH Optima: 4.0-5.0 pH.

Stability: 3.5-6.0 (16 h, 4°C).

Temperature Optima: 50°C.

Temperature Stability: < 45°C (pH 4.0, 15 min).

4. RELATIVE RATES OF HYDROLYSIS OF SUBSTRATES:

This enzyme is ideally suited for starch structural research.

5. PRODUCT DETAILS:

The enzyme is supplied as an ammonium sulphate suspension containing 0.02% sodium azide and should be stored at 4°C. This enzyme is very unstable to freezing and thawing. DO NOT FREEZE. It is recommended that all buffers used for dilution contain BSA (1 mg/mL). Swirl to mix the enzyme immediately prior to use.

6. EXPERIMENTAL DATA:

