

**exo-INULINASE (*Aspergillus niger*)**

12/23

**Recombinant****E-EXOIAN****EC:** 3.2.1.80**Synonyms:** fructan beta-fructosidase; beta-D-fructan fructohydrolase

Also assigned to EC: 3.2.1.26

**Synonyms:** beta-fructofuranosidase; beta-D-fructofuranoside fructohydrolase**CAZy Family:** GH32**CAS:** 37288-56-5**Refer to the product lot number Certificate of Analysis for lot specific properties.****PROPERTIES****1. ELECTROPHORETIC PURITY:**

- Single band on SDS-gel electrophoresis (MW ~ 58,400)
- Single major band on isoelectric focusing (pI ~ 5.4)

**2. SPECIFICITY:****EC 3.2.1.80;** Hydrolysis of terminal, non-reducing (2,1)- and (2,6)-linked  $\beta$ -D-fructofuranose residues in fructans.**EC 3.2.1.26;** Hydrolysis of terminal, non-reducing  $\beta$ -D-fructofuranoside residues in  $\beta$ -D-fructofuranosides**3. PHYSICOCHEMICAL PROPERTIES:**

Recommended conditions of use are at pH 3.5-4.5 and up to 40°C-80°C

pH Optima: 3.5-4.5

pH Stability: 3.0-9.0 (&gt; 75% control activity after 24 h at 4°C)

Temperature Optima: 50-60°C (10 min reaction)

Temperature Stability: up to 50°C

**4. STORAGE CONDITIONS:**

The enzyme is supplied as an ammonium sulphate suspension containing 0.02% (w/v) sodium azide and should be stored at 4°C. For assay, this enzyme should be diluted in sodium acetate buffer (100 mM), pH 4.5 containing 1 mg/mL BSA. **Swirl to mix the enzyme immediately prior to use.**

## 5. EXPERIMENTAL DATA:

