# *exo*-α-SIALIDASE (*Clostridium perfringens*)

**08/23**

***Recombinant***

## E-SIALCP

**EC:** 3.2.1.18

**Synonyms:** *exo*-alpha-sialidase; acetylneuraminyl hydrolase

**CAZy Family:** GH33

**CAS:** 9001-67-6

**Refer to the product lot number Certificate of Analysis for lot specific properties.**

## PROPERTIES

**1. ELECTROPHORETIC PURITY:**

- Single band on SDS-gel electrophoresis (MW ~ 43,600)
- One major band on isoelectric focusing (pI ~ 6.0)

**2. SPECIFICITY:**

Hydrolysis of unbranched, non-reducing terminal α-2,3-linked, α-2,6-linked >> α-2,8-linked N-acetylneuraminic acid (NANA; Neu5Ac) residues from glycoproteins and oligosaccharides of glycoconjugates

**3. PHYSICOCHEMICAL PROPERTIES:**

Recommended conditions of use are at pH 4.5-8.0 and up to 37°C*

**4. STORAGE CONDITIONS:**

The enzyme is supplied as a solution in 20 mM tris buffer containing 50 mM $NaCl_2$, 5 mM EDTA and 0.02% (w/v) sodium azide and should be stored at 4°C. For assay, this enzyme should be diluted in sodium phosphate buffer (100 mM), pH 7.0. **Swirl to mix the enzyme immediately prior to use.**

**5. DESIALYLATION ASSAY (Suggested):**

| | |
|---|---|
| Glycoprotein or glycan | ~ 100 µg |
| distilled water (at ~ 25°C) | 14 µL |
| sodium phosphate (250 mM; pH 6.0) | 4 µL |
| Sialidase | 2 µL |

Mix and incubate for 1 hr at ~ 37°C

**6. STORAGE CONDITIONS:**

Susanne Kruse, Reinhard G. Kleineidam, Peter Roggentin, & Roland Schauer (1996). Expression and Purification of a Recombinant ‘‘Small’’ Sialidase from Clostridium perfringens A99. *Prot. Expr. & Purif.*, 7, 415-422. * Literature values

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