**Exo-α-Sialidase (Clostridium perfringens)**

**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 NaCl₂, 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:**