

## Native Clostridium perfringens (C. welchii) Neuraminidase

Cat. No. NATE-0480

Lot. No. (See product label)

## Introduction

**Description** Neuraminidase enzymes are glycoside hydrolase enzymes (EC 3.2.1.18) that cleave

the glycosidic linkages of neuraminic acids. Neuraminidase enzymes are a large family, found in a range of organisms. The best-known neuraminidase is the viral neuraminidase, a drug target for the prevention of the spread of influenza infection. The viral neuraminidases are frequently used as antigenic determinants found on the surface of the Influenza virus. Some variants of the influenza neuraminidase confer more virulence to the virus than others. Other homologs are found in mammalian cells, which have a range of functions. At least four mammalian sialidase homologs have been described in the human genome (see NEU1, NEU2,

NEU3, NEU4).

**Applications** Neuron-specific enolase from human brain has been used in a study to assess

human amniotic mesenchymal stem cells in the treatment of f ocal cerebral ischemia. It has also been used in a study to investigate sinonasal terat

ocarcinosarcoma with rhabdoid features.

**Synonyms** neuraminidase; sialidase;  $\alpha$ -neuraminidase; acetylneuraminidase; exo- $\alpha$ -sialidase;

EC 3.2.1.18

## **Product Information**

**Source** Clostridium perfringens (C. welchii)

Form buffered aqueous solution; Solution in 100 mM Tris-HCl, 5 mM MgSO4, 250 mM KCl,

pH 5.0-5.2

**EC Number** EC 3.2.1.18

**Purity** > 95% (SDS-PAGE)

**Pathway** Gluconeogenesis, organism-specific biosystem; Gluconeogenesis, oxaloacetate =>

fructose-6P, organism-specific biosystem; Gluconeogenesis, oxaloacetate => fructose-6P, conserved biosystem; Glucose metabolism, organism-specific

biosystem; Glycolysis, organism-specific biosystem

Function lyase activity; magnesium ion binding; phosphopyruvate hydratase activity

**Unit Definition** One unit causes the formation of 1.0 µmole of phospho (enol)pyruvate per minute

at pH 6.8 at 25°C

## Storage and Shipping Information

*Storage* −20°C

**Tel:** 1-631-562-8517 1-516-512-3133 **Email:** info@creative-enzymes.com 1/1