

## Native Human Neuron Specific Enolase

Cat. No. DIA-225

Lot. No. (See product label)

### Introduction

**Description** Neuron specific enolase (NSE) is an enzyme that in humans is encoded by the ENO2 gene. Gamma-enolase is a phosphopyruvate hydratase. Gamma-enolase is one of the three enolase isoenzymes found in mammals. This isoenzyme, a homodimer, is found in mature neurons and cells of neuronal origin. A switch from alpha enolase to gamma enolase occurs in neural tissue during development in rats and primates.

**Applications** Neuron-specific enolase from human brain has been used in a study to assess human amniotic mesenchymal stem cells in the treatment of focal cerebral ischemia. It has also been used in a study to investigate sinonasal teratocarcinoma with rhabdoid features.

**Synonyms** EC 4.2.1.11; Neuron Specific Enolase; NSE; enolase; 2-phosphoglycerate dehydratase; 14-3-2-protein; nervous-system specific enolase; phosphoenolpyruvate hydratase; 2-phosphoglycerate dehydratase; 2-phosphoglyceric dehydratase; 2-phosphoglycerate enolase;  $\gamma$ -enolase; 2-phospho-D-glycerate hydrolyase; phosphopyruvate hydratase

### Product Information

**Species** Human

**Source** Human brain

**Form** buffered aqueous solution

**EC Number** EC 4.2.1.11

**CAS No.** 9014-08-8

**Unit Definition** One unit causes the formation of 1.0  $\mu$ mole of phospho(enol)pyruvate per minute at pH 6.8 at 25 °C

### Storage and Shipping Information

**Storage** -20°C