Gamma Enolase Human

Product Data Sheet

Type: Recombinant
Source: HeLa, COS7
Species: Human
Other names: 2-phospho-D-glycerate hydro-lyase, Enolase 2, Neural enolase, Neuron-specific enolase

Cat. No.:

RGB004	(0.1 mg)

Description

Total 436 AA. MW: 47.59 kDa (calculated). C-Terminal His-tag

Introduction to the Molecule

Enolase (2-phosphoglycerate hydrolyase or phosphopyruvate hydrates) is a glycolytic enzyme that catalyzes the dehydration and conversion of 2-phosphoglycerate to phosphoenolpy-ruvate. It comprises three distinct subunits, alpha, beta and ?. The ?? and alpha? dimeric forms of enolase, referred to as neuron-specific enolase(NSE), are localized mainly in neurons and neuroectodermal tissue. NSE has a high stability in biological fluids and can easily diffuse to the extracellular medium and cerebrospinal fluid(CSF) when neuronal membranes are injured. NSE is used clinically as a sensitive and useful marker of neuronal damage in several neurological disorders including stroke, hypoxic brain damage, status epilepticus, Creutzfeldt-Jakob disease, and herpetic encephalitis.

Research topic

Neural tissue markers

Amino Acid Sequence

MAISRELVDP NSLEVDLYTA KGLFRAAVPS GASTGIYEAL ELRDGDKQRY LGKGVLKAVD HINSTIAPAL ISSGLSVVEQ
EKLDNLMLEL DGTENKSKFG ANAILGVSLA VCKAGAAERE LPLYRHIAQL AGNSDLILPV PAFNVINGGS HAGNKLAMQE
FMILPVGAES FRDAMRLGAE VYHTLKGVIK DKYGKDATNV GDEGGFAPNI LENSEALELV KEAIDKAGYT EKIVIGMDVA
ASEFYRDGKY DLDFKSPTDP SRYITGDQLG ALYQDFVRDY PVVSIEDPFD QDDWAAWSKF TANVGIQIVG DDLTVTNPKR
IERAVEEKAC NCLLLKVNQI GSVTEAIQAC KLAQENGWGV MVSHRSGETE DTFIADLVVG LCTGQIKTGA PCRSERLAKY
NQLMRIEEEL GDEARFAGHN FRNPSALE**HH HHHHHH**

Source

HeLa, COS7

Formulation

Frozen in production medium.

Reconstitution

Defrost at ambient temperature.

Shipping

At ambient temperature. Upon receipt, store the product at the temperature recommended below.

Storage, Stability/Shelf Life

Store frozen at -20 °C. Stable until expiry date.

Quality Control Test

SDS-PAGE

Applications

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