

Datasheet: 6720-2004

Description:	NATIVE HUMAN NEURON SPECIFIC ENOLASE
Name:	NEURON SPECIFIC ENOLASE
Other names:	NSE
Format:	Purified
Product Type:	Purified Protein
Quantity:	50 µg

Product Details

Applications

This product has been reported to work in the following applications. This information is derived from testing within our laboratories, peer-reviewed publications or personal communications from the originators. Please refer to references indicated for further information. For general protocol recommendations, please visit www.bio-rad-antibodies.com/protocols.

	Yes	No	Not Determined	Suggested Dilution
ELISA	▪			
Western Blotting			▪	

Where this product has not been tested for use in a particular technique this does not necessarily exclude its use in such procedures. Suggested working dilutions are given as a guide only. It is recommended that the user titrates the product for use in their own system using the appropriate negative/positive controls.

Target Species	Human
Product Form	Purified enzyme from human brain - liquid
Preparation	Ion exchange chromatography and gel filtration.
Buffer Solution	0.1M TRIS/HCl 0.005M Magnesium Sulfate 0.25M Potassium Chloride
Preservative Stabilisers	None present
Approx. Protein Concentrations	Total protein concentration 0.87 mg/ml
External Database Links	UniProt: P09104 Related reagents

Entrez Gene:

[2026](#) ENO2 [Related reagents](#)

Product Information **Purified neuron specific enolase (NSE)** has been prepared from human brain tissue by ion exchange chromatography and gel filtration. NSE, also known as gamma enolase, 2-phospho-D-glycerate hydro-lyase, enolase-2 or Neural enolase, is a glycolytic enzyme expressed in neuronal tissue and released in response to neural tissue damage. An increase in serum levels of NSE has been found in patients with tumors such as neuroblastoma ([Odelstad *et al.* 1981](#), [Zeltzer *et al.* 1983](#)).

Activity 58 $\mu\text{mol}/\text{min mg}$ at 25°C determined in 45 mM Imidasole, pH 6.8, 45 mM KCl, 1.33 mM Mg_2SO_4 , 1 mM 2-PG.

Purity SDS PAGE: >95%

References

1. Hullin, D.A. *et al.* (1980) Purification, radioimmunoassay, and distribution of human brain 14-3-2 protein (nervous-system specific enolase) in human tissues. [Biochim Biophys Acta. 628 \(1\): 98-108.](#)
2. Cheng, S. *et al.* (2015) Label-free detection of tumor markers using field effect transistor (FET)-based biosensors for lung cancer diagnosis [Sensors and Actuators B: Chemical. 212: 329-334.](#)

Storage Store at -20°C only.
Storage in frost-free freezers is not recommended.
This product should be stored undiluted. Avoid repeated freezing and thawing as this may denature the protein. Should this product contain a precipitate we recommend microcentrifugation before use.

Guarantee 12 months from date of despatch

Health And Safety Information Material Safety Datasheet documentation #20491 available at:
20491: <https://www.bio-rad-antibodies.com/uploads/MSDS/20491.pdf>

Donor material tested and found negative for HIV1 and 2, HBsAg and HCV.

As no test can completely guarantee this material to be free of pathogens it should be handled as potentially infectious

Regulatory For research purposes only

North & South Tel: +1 800 265 7376

America Fax: +1 919 878 3751

Email: antibody_sales_us@bio-rad.com

Worldwide

Tel: +44 (0)1865 852 700

Fax: +44 (0)1865 852 739

Email: antibody_sales_uk@bio-rad.com

Europe

Tel: +49 (0) 89 8090 95 21

Fax: +49 (0) 89 8090 95 50

Email: antibody_sales_de@bio-rad.com

To find a batch/lot specific datasheet for this product, please use our online search tool at: bio-rad-antibodies.com/datasheets

'M377201:210215'

Printed on 29 Aug 2021

