



Product Information

Non-neuronal Enolase, From human brain

Product Code **N 9034**

Storage Temperature $-20\text{ }^{\circ}\text{C}$

Synonyms: NNE

Product Description

The ratio of neuron-specific enolase (NSE) to non-neuronal enolase (NNE) has been used in the diagnosis of neuroblastomas.¹ Non-neuronal enolase has also been shown to be a specific metabolic marker for glial cells, and is not observed in endothelial cells or neurons.⁴

Minimum purity is >70% (SDS-PAGE). Purified by ion-exchange chromatography, gel-filtration and ammonium sulfate fractionation. Concentration is lot specific and is determined by the BCA method.

Supplied as a solution in 10 mM Tris/HCL, 5 mM MgSO₄, pH 7.5 with 0.1% sodium azide added as a preservative.

Precautions and Disclaimer

Human source material tested negative for syphilis, HIV1, HIV2, HCV antibodies and HbsAg. No test can guarantee a product to be non-infectious. Therefore, all material derived from human fluids or tissues should be considered as potentially infectious. This product is for laboratory research use only. Please consult the Material Safety Data Sheet for handling recommendations before working with this material.

Storage/Stability

This product should be stored at or below $-20\text{ }^{\circ}\text{C}$ (avoid frost-free freezers). Shipped in dry ice.

Specificity

Does not react with MAb to NSE in ELISA and Western blot.

References

1. Viillard, J. L., et al., Serum neuronal-specific/nonneuronal enolase ratio in the diagnosis of neuroblastomas, *Cancer.*, **62**, 2546-53 (1988).
2. Heydorn W. E., et al., Identification of neuron-specific enolase and nonneuronal enolase in human and rat brain on two-dimensional polyacrylamide gels. *J Neurochem.*, **44** Jan(1):201-9 (1985).
3. Marangos P. J., et al., Brain levels of neuron-specific and nonneuronal enolase in Huntington's disease. *J Neurochem.*, **37** Nov(5):1338-40 (1981).
4. Schmechel D., et al., Brain endolases as specific markers of neuronal and glial cells. *Science.*, **199** Jan 20;(4326): 313-5 (1978).

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