



## Product Information

### Src N2, Human, recombinant

Product Number **S 3816**  
Storage Temperature  $-70^{\circ}\text{C}$

#### Product Description

Human Src N2 is a 62 kDa membrane associated protein expressed in insect cells by recombinant baculovirus.

Src is a family of non-receptor-associated protein-tyrosine kinases. The Src protein tyrosine kinases control a variety of cellular processes ranging from proliferation, differentiation, motility, adhesion, and transcription.<sup>1</sup> They are also involved in control of cell survival and angiogenesis.<sup>2</sup> Src is activated as a result of disruption of regulatory processes that normally suppress its activity.<sup>3</sup> The *c-src* N2 exon is utilized primarily in conjunction with the N1 exon in neuronal cells to yield transcripts capable of encoding *c-src* products possessing 17 additional amino acids.<sup>4</sup>

Specific activity: minimum 800 units/mg protein

Unit Definition: One unit will transfer 1 nanomole of phosphate per minute using polyE4Y as the substrate at pH 8.0 at  $30^{\circ}\text{C}$ .

The product is supplied as a solution of 50 mM Tris-HCl, pH 7.5, containing 0.05 mM EDTA, 1 mM DTT, 100 mM NaCl, 0.05% NP-40, and 50% glycerol.

#### Precautions and Disclaimer

This product is for laboratory use only. Please consult the Material Data Safety Sheet for information regarding hazards and safe handling practices.

#### Storage/Stability

The product ships on dry ice and it is recommended to store the product at  $-70^{\circ}\text{C}$ . After thawing, store the solution as aliquots at  $-20^{\circ}\text{C}$ . Avoid repeated freeze-thaw cycles.

#### References

1. Tatosyan, A.G., and Mizenina, O.A., Kinases of the Src family: structure and functions. *Biochemistry (Mosc.)*, **65**, 49-58 (2000).
2. Schlessinger, J., New roles for Src kinases in control of cell survival and angiogenesis. *Cell*, **100**, 293-296 (2000).
3. Bjorge, J.D., et al., Selected glimpses into the activation and function of Src kinase. *Oncogene*, **19**, 5620-5635 (2000).
4. Pyper, J.M., and Bolen, J.B., Identification of a novel neuronal C-SRC exon expressed in human brain. *Mol. Cell Biol.*, **10**(5), 2035-2040 (1990).

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