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Data Sheet

NEK2 (Full length, human, recombinant, N-terminal His tag)

Catalog #: 40009

Description: Human NEK2 (GenBank Accession No. NM_002497) full length with N-terminal HIS₆ tag, MW=53 kDa, expressed in a Baculovirus infected Sf9 cell expression system.

Source: Baculovirus infected Sf9 cells

Fomulated in: 25 mM Tris-HCl, pH 8.0, 150 mM NaCl, 0.05% Tween-20, 40% glycerol, and 3 mM DTT.

Stability: >6 months at -80°C

Purity: >70 % by SDS-Page

Specific Activity: 100 U/mg. One unit is defined as the amount of enzyme that will phosphorylate 1 nmol of myelin basic protein (MBP) substrate per minute at pH 7.4 and 30°C. Assay buffer: 50 mM HEPES, pH 7.4, 3 mM MgCl₂, 3 mM MnCl₂, 1 mM DTT, 3 uM Na-orthovanadate, 0.5 mM ATP, 0.3 mg/ml MBPsubstrate, and 0.2 ug/ml NEK2.

Application: useful for the study of enzyme kinetics, screening inhibitors, and selectivity profiling.

References:

1. Fletcher, L. et al., Biochim. Biophys. Acta 1744 (2), 89-92 (2005)
2. Fardilha, M. et al., Ann. N.Y. Acad. Sci. 1030, 468-478 (2004)

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