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Data Sheet

NEK6 (Full length, human, recombinant, N-terminal His tag)

Catalog #: 40014

Description: Human NEK6 (GenBank Accession No. NM_014397), (a.a. 1-313) with N-terminal HIS₆ tag, MW=40.1 kDa, expressed in a Baculovirus infected Sf9 cell expression system.

Source: Baculovirus infected Sf9 cells

Fomulated in: 25 mM Tris-HCl, pH 8.0, 100 mM NaCl, 0.05% Tween-20, 50% glycerol, and 3 mM DTT.

Stability: >6 months at -80°C

Purity: >90% by SDS-PAGE.

Specific Activity: 70 U/mg. One unit is defined as the amount of enzyme that will phosphorylate 1 nmol NEK6 substrate (FLAKSFGSPNRAYKK) 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, 0.1 mM ATP, 4 uM NEK6 substrate, and 0.4 ug/ml NEK6.

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

References:

1. Yin, M.J. et al., J. Biol. Chem. 278 (52), 52454-52460 (2003)
2. Belham, C. et al., J. Biol. Chem. 278 (37), 34897-34909 (2003)

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