

**NEK7, Active recombinant protein**  
**NEK, Serine/threonine-protein kinase Nek7**  
**Catalog # PBV11293r****Specification**

---

**NEK7, Active recombinant protein - Product info**

Primary Accession	<a href="#">Q8TDX7</a>
Concentration	<b>0.1</b>
Calculated MW	<b>63.0 kDa KDa</b>

**NEK7, Active recombinant protein - Additional Info**

Gene ID	<b>140609</b>
Gene Symbol	<b>NEK7</b>

**Other Names**

NEK, Serine/threonine-protein kinase Nek6, Serine/threonine-protein kinase Nek6, Never in mitosis A-related kinase 6, NimA-related protein kinase 6, Protein kinase SID6-1512

Source	<b>Baculovirus (Sf9 insect cells)</b>
Assay&Purity	<b>SDS-PAGE; ≥90%</b>
Assay2&Purity2	<b>HPLC;</b>
Recombinant	<b>Yes</b>
<b>Format</b>	
Liquid	

**Storage**

-80°C; Recombinant proteins in storage buffer (50 mM Tris-HCl, pH 7.5, 150 mM NaCl, 0.25 mM DTT, 0.1 mM EGTA, 0.1 mM EDTA, 0.1 mM PMSF, 25% glycerol).

**NEK7, Active recombinant protein - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

**NEK7, Active recombinant protein - Images****NEK7, Active recombinant protein - Background**

Nek7 is a member of the NIMA (never in mitosis, gene A) family of serine/threonine kinases. In contrast to the other documented NIMA-related kinases, Nek7 harbor its catalytic domain in the C-terminus of the protein. Immunofluorescence studies suggest that Nek7 is cytoplasmic and

located on chromosome 1 (1). During early embryogenesis Nek7 is expressed in the site of decidual reaction while later in embryogenesis, it is almost exclusively restricted to the nervous system in the dorsal thalamus (2). The major protein kinase that is active on the p70 S6 kinase hydrophobic regulatory site (FXXFS/TF/Y) Thr412 was purified from rat liver and identified as Nek7 (3). Nek7 kinase activity is rapidly and efficiently increased by serum deprivation, and may be regulated in a cell cycle-dependent manner.