

NEK10 recombinant protein

NEK10, Active

CATALOG #
AAA73750

HOST
Sf9 insect cells

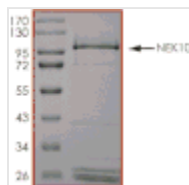
PRODUCT SYNONYMS

NEK10; Active; NIMA (Never In Mitosis Gene A) Related Kinase 10; NEK10 recombinant protein

PRODUCT SPECIFICATIONS

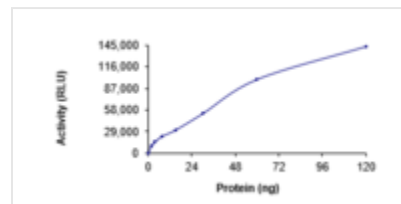
Host	Sf9 insect cells
Form/Format	Recombinant protein stored in 50mM Tris-HCl, pH7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.
Tag	GST
Species	Human
Dry Ice Note	The product may be shipped with dry ice, and an additional fee may be added to your shipping cost.
Preparation and Storage	Store product at -70 degree C. For optimal storage, aliquot target into smaller quantities after centrifugation and store at recommended temperature. For most favorable performance, avoid repeated handling and multiple freeze/thaw cycles.

IMAGES



SDS-PAGE

Purity: Sample Purity Data. For specific information on a given lot, see related technical datasheet.



Activity

Specific Activity : Sample Kinase Activity Plot. For specific information on a given lot, see related technical data sheet.

ADDITIONAL INFORMATION

Related Product Information for NEK10 recombinant protein

Recombinant human NEK10 (266-895) was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag. The gene accession number is NM_152534.

NEK10 (NIMA Related Kinase 10) is a serine/threonine kinase that is involved in the regulation of the G2/M checkpoint in mitosis. It has unique structure with central catalytic kinase domain flanked by two large regulatory domains (1). NEK10 acts as a positive regulator of ERK1/2 in response to UV irradiation. In mitochondria, NEK10 interacts with GLUD1 and citrate synthase and plays a role in maintaining mitochondrial homeostasis (2). NEK10 also contributes to cilium formation through interaction with PKA and PCM1 and participating in a cAMP dependent pathway [3]. Mutations in NEK10 have been reported in lung cancer and breast cancer (2).

Product Categories/Family for NEK10 recombinant protein

Protein Kinases; Angiogenesis; Cancer; Cell Cycle; Cellular Stress; Inflammation; Ser/Thr Kinases

References

1. Meirelles, G.V. et al: Stop Ne(c)king around: How interactomics contributes to functionally characterize Nek family kinases. World J Biol Chem. 5(2):141-60, 2014.
2. Peres de Oliveira, A. et al: NEK10 interactome and depletion reveal new roles in mitochondria. Proteome Sci. 18:4, 2020.
3. Porpora, M. et al: Counterregulation of cAMP-directed kinase activities controls ciliogenesis. Nat Commun. 9(1):1224, 2018.

NCBI AND UNIPROT INFORMATION

NCBI GenBank Nucleotide #

[NM_152534](#)

Molecular Weight

approx. MW: 98kDa

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

AAA Biotech | Tel: +1 (619) 604-9440 | Fax: +1 (619) 604-9441 | contact@aaabiotech.com

Online datasheet: <https://stage.aaabiotech.com/hek10-recombinant-protein-sf9-insect-cells/73750>