

WNK3 recombinant protein

WNK3, Active

CATALOG # AAA74115	HOST Sf9 insect cells	APPLICATIONS Western Blot
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PRODUCT SYNONYMS

WNK3; Active; PRKWNK3; FLJ30437; FLJ42662; KIAA1566; WNK3 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, and 25% glycerol.
Applicable Applications for WNK3 recombinant protein	WB (Western Blot), Kinase Assay
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 data sheet.



Activity

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

ADDITIONAL INFORMATION

Related Product Information for WNK3 recombinant protein	Recombinant human WNK3 (1-571) was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag. The gene accession number is NM_001002838. WNK3 is a member of serine-threonine protein kinases, which was named the with-no-lysine family (1). WNK3 is expressed in several tissues including kidney and brain (1). WNK3 can regulate the activity of the electroneutral cation-coupled chloride cotransporters by activating NKCC1/2 and NCC and inhibiting KCCs (1). WNK3 kinase function is required for normal blood pressure homeostasis and the control of neuronal excitability (2). Also, overexpression of WNK3 increases the survival of Hela cells through caspase-3 pathway (3).
Product Categories/Family for WNK3 recombinant protein	Protein Kinases; AKT/PKB Pathway; Angiogenesis; Apoptosis/Autophagy; Cancer; Cardiovascular Disease; Cell Cycle; Cellular Stress; Cytoplasmic Tyrosine Kinases; ERK/MAPK Pathway; Inflammation; Invasion/Metastasis; Lipid Kinases; Neurobiology; p38 Pathway

References

1. Rinehart J., et.al: WNK3 kinase is a positive regulator of NKCC2 and NCC, renal cation-Cl-cotransporters required for normal blood pressure homeostasis. Proc Natl Acad Sci USA.; 102(46):16777-82, 2005.
2. Kahle KT., et.al: WNK3 modulates transport of Cl-in and out of cells: implications for control of cell volume and neuronal excitability. Proc Natl Acad Sci USA.; 102(46):16783-8, 2005.
3. Verissimo F., et.al: Protein kinase WNK3 increases cell survival in a caspase-3-dependent pathway. Oncogene, 25 (30): 4172-82, 2006.

NCBI AND UNIPROT INFORMATION

NCBI GenBank Nucleotide #

[NM_001002838](#)

Molecular Weight

~91kDa

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.

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Online datasheet: <https://stage.aaabiotech.com/wnk3-recombinant-protein-sf9-insect-cells-wb-western-blot-kinase-assay/74115>