

WNK4 recombinant protein

WNK4, Active

CATALOG # AAA74116	HOST Sf9 insect cells	APPLICATIONS Western Blot
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PRODUCT SYNONYMS

WNK4; Active; PHA2B; PRKWNK4; WNK4 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.
Applicable Applications for WNK4 recombinant protein	WB (Western Blot), Kinase Assay
Tag	GST
Species	Mouse
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 Kinase Activity Plot. For specific information on a given lot, see related technical data sheet.

ADDITIONAL INFORMATION

Related Product Information for WNK4 recombinant protein	Recombinant mouse WNK4 (1-441) was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag. The gene accession number is NM_175638. WNK4 or WNK lysine deficient protein kinase 4 is a member of the WNK family of serine-threonine protein kinases which is part of the tight junction complex in kidney cells. WNK4 can regulate the balance between NaCl reabsorption and K(+) secretion. WNK4 negatively regulates the surface expression of SLC12A3, and the loss of this regulation may cause an inherited form of hypertension (1). WNK4 regulates the activities of several types of ion channels, cotransporters, and exchangers involved in electrolyte flux in epithelial cells. WNK4 is a positive regulator for the WNK-OSR1/SPAK-NCC cascade and is a potential target of antihypertensive drugs (2).
Product Categories/Family for WNK4 recombinant protein	Protein Kinases ; Cancer ; Cardiovascular Disease ; Cell Cycle ; Ser/Thr Kinases
References	1. Wilson, F. H. et.al: Human hypertension caused by mutations in WNK kinases. Science 293: 1107-1112, 2001. 2. Ohta, A. et.al: Targeted disruption of the Wnk4 gene decreases phosphorylation of Na-Cl cotransporter, increases Na excretion and lowers

NCBI AND UNIPROT INFORMATION

NCBI GenBank Nucleotide #	NM_175638
Molecular Weight	~86kDa

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/wnk4-recombinant-protein-sf9-insect-cells-wb-western-blot-kinase-assay/74116>