

# Recombinant Human WNK Lysine Deficient Protein Kinase 1, GST-tagged

**Cat. No.** WNK1-1119H    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	Recombinant human WNK1 (181-507) was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
<b>Species</b>	Human
<b>Source</b>	Sf9 Cells
<b>ProteinLength</b>	181-507 a.a.
<b>Description</b>	WNK1 is a member of the WNK subfamily of serine/threonine protein kinases that is a key regulator of blood pressure by controlling the transport of sodium and chloride ions. Mutations in WNK1 have been associated with pseudohypoaldosteronism type II and hereditary sensory neuropathy type II. WNK1 is a regulator of blood pressure and deficiency of this protein in mice lowers the blood pressure. WNK1 can regulate the Ca (2+) sensing and the subsequent Ca (2+)-dependent interactions mediated by synaptotagmin C2 domains and WNK1 exhibits additive CFTR inhibition.
<b>Applications</b>	Kinase Assay; Western Blot
<b>Molecular Weight</b>	67 kDa
<b>Expression System</b>	Sf9 insect cells using baculovirus
<b>Form</b>	Recombinant protein stored in 50 mM Tris-HCl, pH 7.5, 150 mM NaCl, 10 mM

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	glutathione, 0.1 mM EDTA, 0.25 mM DTT, 0.1 mM PMSF, 25 % glycerol.
<b>Purity</b>	> 95 %
<b>Concentration</b>	0.1 ug/ul
<b>Sequences</b>	181-507
<b>Storage</b>	Store product at -70°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.
<b>Pathways</b>	EGFR1 Signaling Pathway
<b>GENE INFORMATION</b>	
<b>Gene Name</b>	WNK1 WNK lysine deficient protein kinase 1 [ Homo sapiens ]
<b>Official Symbol</b>	WNK1
<b>Synonyms</b>	WNK1; WNK lysine deficient protein kinase 1; KDP; PSK; p65; HSN2; HSN2; PRKWNK1; KIAA0344; MGC163339; MGC163341; serine/threonine-protein kinase WNK1; OTTHUMP00000115370; OTTHUMP00000237889; erythrocyte 65 kDa protein; protein kinase with no lysine 1; protein kinase lysine-deficient 1; protein kinase, lysine deficient 1; prostate-derived sterile 20-like kinase; EC 2.7.11.1
<b>Gene ID</b>	65125
<b>mRNA Refseq</b>	NM_018979
<b>Protein Refseq</b>	NP_061852

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<b>MIM</b>	605232
<b>UniProt ID</b>	Q9H4A3
<b>Chromosome Location</b>	12p13.3
<b>Function</b>	ATP binding; Protein binding; nucleotide binding; protein kinase inhibitor activity; protein serine/threonine kinase activity

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