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

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

SPECIFICATION

Product Overview	Recombinant human WNK1 (181-507) was expressed by baculovirus in Sf9 insect cells using an N-terminal GST tag.
Species	Human
Source	Sf9 Cells
ProteinLength	181-507 a.a.
Description	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.
Applications	Kinase Assay; Western Blot
Molecular Weight	67 kDa
Expression System	Sf9 insect cells using baculovirus
Form	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.
Purity	> 95 %
Concentration	0.1 ug/ul
Sequences	181-507
Storage	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.
Pathways	EGFR1 Signaling Pathway

GENE INFORMATION

Gene Name	WNK1 WNK lysine deficient protein kinase 1 [Homo sapiens]
Official Symbol	WNK1
Synonyms	WNK1; WNK lysine deficient protein kinase 1; KDP; PSK; p65; HSN2; HSAN2; 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
Gene ID	65125
mRNA Refseq	NM_018979
Protein Refseq	NP_061852

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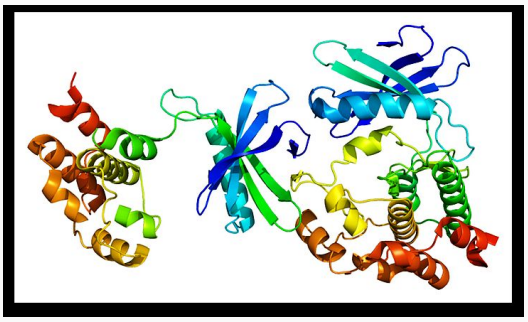
MIM	605232
UniProt ID	Q9H4A3
Chromosome Location	12p13.3
Function	ATP binding; Protein binding; nucleotide binding; protein kinase inhibitor activity; protein serine/threonine kinase activity
PDBrendering based on 1t4h.	

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