

Recombinant Human WNK4 Protein (L2-M1243), His/GST tagged

Cat. No. WNK4-1099H Lot. No. (See product label)

SPECIFICATION

Product Overview

Recombinant Human 8His-GST-TEV-GG-WNK4(L2-M1243 end) Protein was expressed in Insect cell.

Species

Human

Source

Insect Cells

ProteinLength

L2-M1243

Description

Serine/threonine kinase which plays an important role in the regulation of electrolyte homeostasis, cell signaling, survival and proliferation. Acts as an activator and inhibitor of sodium-coupled chloride cotransporters and potassium-coupled chloride cotransporters respectively. Activates SCNN1A, SCNN1B, SCNN1D, SGK1, TRPV5 and TRPV6. Regulates the activity of the thiazide-sensitive Na-Cl cotransporter, SLC12A3, by phosphorylation which appears to prevent membrane trafficking of SLC12A3. Also inhibits the renal K(+) channel, KCNJ1, via a kinase-independent mechanism by which it induces clearance of the protein from the cell surface by clathrin-dependent endocytosis. WNK4 appears to act as a molecular switch that can vary the balance between NaCl reabsorption and K(+) secretion to maintain integrated homeostasis. Phosphorylates NEDD4L. Acts as a scaffold to inhibit SLC4A4 as well as CFTR activities and surface expression, recruits STK39 which mediates the inhibition.

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Form	Liquid
Endotoxin	< 0.01 EU per µg of the protein
Purity	90%
Stability	Samples are stable for up to twelve months from date of receipt at -20 to -80 centigrade.
Storage	Store it under sterile conditions at -20 to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Storage Buffer	Supplied as sterile 50 mM Tris-HCl (pH7.5), 200 mM NaCl, 20% glycerol
Shipping	It is shipped out with blue ice.

GENE INFORMATION

Gene Name	WNK4 putative protein kinase WNK4 [Homo sapiens (human)]
Official Symbol	WNK4
Synonyms	WNK4; putative protein kinase WNK4;
Gene ID	65266
mRNA Refseq	NM_032387
Protein Refseq	NP_115763
MIM	601844

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UniProt ID

Q96J92

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