

Recombinant Human WNK4 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. WNK4-630H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	WNK4 MS Standard C13 and N15-labeled recombinant protein (NP_115763) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	This gene encodes a member of the WNK family of serine-threonine protein kinases. The kinase is part of the tight junction complex in kidney cells, and regulates the balance between NaCl reabsorption and K(+) secretion. The kinase regulates the activities of several types of ion channels, cotransporters, and exchangers involved in electrolyte flux in epithelial cells. Mutations in this gene result in pseudohypoaldosteronism type IIB.
Molecular Mass	134.6 kDa
AA Sequence	MLASPATETTVLMSQTEADLALRPPPPLGTAGQPRLGPPPRRARRFSGKAEPRPRS SRLSRRSSVDLGLLSSWSLPASPAPDPPDPPDSAGPGPARSPPPSSKEPPEGTWT EGAPVKAEDSARPELPDSAVGPGSREPLRVPEAVALERRREQEEKEDMETQAVA TSPDGRYLKFDIEIGRGSFKTVYRGLDTDTTVEVAWCCELQTRKLSRAERQRFSEEVE MLKGLQHPNIVRFYDSWKSVLRGQVCIVLVTLM TSGTLKTYLRRFREM KPRVLQR WSRQILRGLHFLHSRVPPILHRDLKCDNVFITGPTGSVKIGDLGLATLKRASFAKSVIG TPEFMAPEMYEEKYDEAVDVYAFGMCMLEMATSEYPYSECQNAAQIYRKVTSGRK

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PNSFHKVKIPEVKEIIEGCIRTDKNERFTIQDLLAHAFFREERG VHVELAEEDDGEKP
 GLKLWLRMEDARRGGRPRDNQAIEFLFQLGRDAAEEVAQEMVALGLVCEADYQPV
 ARAVRERVA AIQRKREKLRKARELEALPPEPGPPPATVPMAPGPPSVFPPEPEEPE
 ADQHQPFLFRHASYSSTTSDCETDGYLSSSGFLDASDPALQPPGGVPSSLAESHLC
 LPSAFALSIPRSGPGSDFSPGDSYASDAASGLSDVGEGMGQMRRPPGRNLRRRPR
 SRLRVTSDQNDRVVECQLQTHNSKMVTRFDLDGDSPEEIAAAMVYNEFILPSE
 RDGFLRRIREIIQRVETLLKRDTGPMEAAEDTLSPQEEPAPLPALPVPLPDPSNEELQ
 SSTSLHRSWTAFSTSSSSPGTPLSPGNPFSPGTPISPGPIFPITSPPCHPSPSPFSP
 SSQVSSNPSPHPTSSPLPFSSSTPEFPVPLSQCPWSSLPTTSPPTFSPTCSQVTLSS
 PFFPPCPSTSSFPSTTAAPLLSLASAFSLAVMTVAQSLSPSPGLLSQSPAPPSPPLP
 SLPLPPP VAPGGQESPSPHTA EVESEASPPPARPLPGEARLAPISEEGKPQLVGRF
 QVTSSKEPAEPLPLQPTSPTLSGSPKPSTPQLTSESSDTEDSAGGGPETREALAES
 DRAAEGLGAGVEEEGDDGKEPQVGGSPQPLSHPSPVWMNYSYSSLCLSSEES
 SGEDEEFWAE LQSLRQKHLSEVETLQTLQKKEIEDLYSRLGKQPPPGIVAPAAMLSS
 RQRRLSKGSFPTSRRLSLQRSEPPGPGIMRRNSLSGSSTGSQEQRASKGVTFAGD
 VGRMSGPTRTRRLEQKLISEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

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Gene Name	WNK4 putative protein kinase WNK4 [Homo sapiens (human)]
Official Symbol	WNK4
Synonyms	WNK4; WNK lysine deficient protein kinase 4; PHA2B; PRKWNK4; serine/threonine-protein kinase WNK4; protein kinase lysine-deficient 4; protein kinase with no lysine 4; EC 2.7.11.1
Gene ID	65266
mRNA Refseq	NM_032387
Protein Refseq	NP_115763
MIM	601844
UniProt ID	Q96J92
SDS-PAGE	