

Recombinant Full Length Human WNK4 Protein, C-Flag-tagged

Cat. No. WNK4-1157HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human WNK4 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
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.
Form	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	134.6 kDa
AA Sequence	MLASPATETTVLMSQTEADLALRPPPPLGTAGQPRLGPPRRARRFSGKAEPRPRS SRLSRRSSVDLGLL SWSLPASPAPDPPDPPDSAGPGPARSPPPSSKEPPEGTWT EGAPVKAAEDSARPELPDSAVGPGSREPL RVPEAVALERRREQEEKEDMETQAVA TSPDGRYLKFDIEIGRGSFKTVYRGLD TTTVEVAWCCELQTRKL SRAERQRFSEEV EMLKGLQHPNIVRFYDSWKS VLRGQVCIVLVT ELM TSGTLKTYLRRFREM KPRVLQ RW SRQILRGLHFLHSRVPPILHRDLKCDNVFITGPTG SVKIGDLGLATLKRASFAKSV IGTPEFMAPEMYEE KYDEAVDVYAFGMCMLEMATSEYPYSECQNAAQIYRKVTSG

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RKPNSFHKVKIPEVKEIIEGCIRTDKNER FTIQDLLAHAFFREERG VHVELAEEDDGE
 KPGLKLWLRMEDARRGGRPRDNQAIEFLFQLGRDAAEEVAQ EMVALGLVCEADYQ
 PVARAVRERVAAIQRKREKLRKARELEALPPEPGPPPATVPMAPGPPSVFPPEPEE
 PEADQHQPFLFRHASYSSTSDCETDGYLSSSGFLDASDPALQPPGGVPSSLAESH
 LCLPSAFALSIPRS GPGSDFSPGDSYASDAASGLSDVGEGMGQMRRPPGRNLRRR
 PRSRLRVTSVSDQNDRVVECQLQTHNSKM VTRFDLDGDSPEEIAAAMVYNEFILP
 SERDGLRRRIEIIQRVETLLKRDTGPMEEAEDTLSPQEEPAP LPALPVPLPDPSNEE
 LQSSTSLEHRSWTAFTSSSSPGTPLSPGNPFSPGTPISPGIPIFITSPPCHPSP SPF
 SPISSQVSSNPSPHPTSSPLPFSSSTPEFPVPLSQCPWSSLPTTSPPTFSPTCSQVT
 LSSPFFPPCP STSSFPSTTAAPLLSLASAFSLAVMTVAQSLSPSPGLLSQSPAPP
 SPLPSLPLPPPVPAPGGQESPSPH TAEVESEASPPPARPLPGEARLAPISEEGKPQL
 VGRFQVTSSKEPAEPLPLQPTSPTLGSPKPKSTPQLT SESSDTEDSAGGGPETREA
 LAESDRAAEGLGAGVEEEGDDGKEPQVGGSPQPLSHPSPVWMNYSYSSLCL SSE
 ESESSGEDEEFWAEQLSLRQKHLSEVETLQTLQKKEIEDLYSRLGKQPPPGIVAPAA
 MLSSRQRRLS
 KGSFPTSRRNSLQRSEPPGPGIMRRNSLSGSSTGSQEQRASKGVTFAGDVGRMSG
 PTRTRRLEQKLISEEDLAANDILDYKDDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.

Protein Families	Druggable Genome, Protein Kinase
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Full Length	Full L.
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GENE INFORMATION

Gene Name	WNK4 WNK lysine deficient protein kinase 4 [Homo sapiens (human)]
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Official Symbol	WNK4
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Synonyms	PHA2B; PRKWNK4
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Gene ID	65266
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mRNA Refseq	NM_032387.5
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Protein Refseq	NP_115763.2
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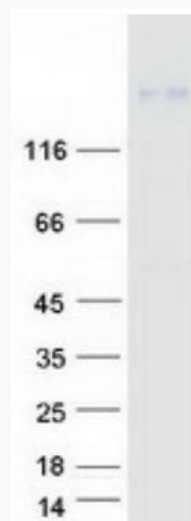
MIM	601844
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UniProt ID	Q96J92
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Coomassie blue staining of purified WNK4 protein.

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