

## Recombinant Human WNK1 (N-GST tag)

Cat No:HR2R2070

For research use only

### Overview

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| Quantity           | 10 ?g                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Gene Symbol        | WNK1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| Gene ID            | N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Accession          | NM_018979                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Alternative Name   | HSAN2; HSN2; KDP; KIAA0344; MGC163339; MGC163341; p65; PRKWNK1; PSK                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Species            | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Source             | Insect cells                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 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 . |
| Functions          | The specific activity of WNK1 was determined to be 30 nmol/min/mg as per activity assay protocol.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Formulation        | 50mM Tris-HCl, pH 7.5, 150mM NaCl, 10mM glutathione, 0.1mM EDTA, 0.25mM DTT, 0.1mM PMSF, 25% glycerol.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Solubility         | N/A                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Appearance         | Liquid                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Molecular Weight   | 67                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Purity             | 70% - 90%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Concentration      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Shipping Condition | Dry Ice                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| Storage Condition  | 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.                                                                                                                                                                                                                                                                                                                                               |