

## Recombinant Mouse Sgk3 Protein, Myc/DDK-tagged

Cat. No. Sgk3-5826M Lot. No. (See product label)

### SPECIFICATION

|                         |  |
|-------------------------|--|
| <b>Product Overview</b> | Purified recombinant protein of mouse full-length serum/glucocorticoid regulated kinase 3 (cDNA clone MGC:19373 IMAGE:2631682), complete cds, with C-terminal MYC/DDK tag, expressed in HEK293T cells.   |
| <b>Species</b>          | Mouse  |
| <b>Source</b>           | HEK293   |
| <b>Description</b>      | Serine/threonine-protein kinase which is involved in the regulation of a wide variety of ion channels, membrane transporters, cell growth, proliferation, survival and migration. Up-regulates Na <sup>+</sup> channels: SCNN1A/ENAC and SCN5A, K <sup>+</sup> channels: KCNA3/KV1.3, KCNE1, KCNQ1 and KCNH2/HERG, epithelial Ca <sup>2+</sup> channels: TRPV5 and TRPV6, chloride channel: BSND, creatine transporter: SLC6A8, Na <sup>+</sup> /dicarboxylate cotransporter: SLC13A2/NADC1, Na <sup>+</sup> -dependent phosphate cotransporter: SLC34A2/NAPI-2B, amino acid transporters: SLC1A5/ASCT2 and SLC6A19, glutamate transporters: SLC1A3/EAAT1, SLC1A6/EAAT4 and SLC1A7/EAAT5, glutamate receptors: GRIA1/GLUR1 and GRIK2/GLUR6, Na <sup>+</sup> /H <sup>+</sup> exchanger: SLC9A3/NHE3, and the Na <sup>+</sup> /K <sup>+</sup> ATPase. Plays a role in the regulation of renal tubular phosphate transport and bone density. Phosphorylates NEDD4L and GSK3B. Positively regulates ER transcription activity through phosphorylation of FLII. Negatively regulates the function of ITCH/AIP4 via its phosphorylation and thereby prevents CXCR4 from being efficiently sorted to lysosomes. |
| <b>Molecular Mass</b>   | 91.4 kDa   |

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|                       |   |
|-----------------------|---|
| <b>Purity</b>         | > 80% as determined by SDS-PAGE and Coomassie blue staining   |
| <b>Stability</b>      | Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles. |
| <b>Storage</b>        | Store at -80 centigrade after receiving vials.  |
| <b>Concentration</b>  | >50 µg/mL as determined by microplate BCA method  |
| <b>Storage Buffer</b> | 25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.   |

## GENE INFORMATION

|                        |  |
|------------------------|--|
| <b>Gene Name</b>       | Sgk3 serum/glucocorticoid regulated kinase 3 [ <i>Mus musculus</i> (house mouse) ]   |
| <b>Official Symbol</b> | <a href="#">Sgk3</a>   |
| <b>Synonyms</b>        | Sgk3; serum/glucocorticoid regulated kinase 3; Ci; fy; fz; Cisk; 2510015P22Rik; A330005P07Rik; serine/threonine-protein kinase Sgk3; cytokine-independent survival kinase; EC 2.7.11.1 |
| <b>Gene ID</b>         | <a href="#">170755</a>   |
| <b>mRNA Refseq</b>     | <a href="#">NM_133220</a>  |
| <b>Protein Refseq</b>  | <a href="#">NP_573483</a>  |
| <b>UniProt ID</b>      | <a href="#">Q9ERE3</a>   |

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