# Recombinant Human SGK3/SGKL Protein (His &GST Tag)

**Catalog Number: PKSH031020**

**Note:** *Centrifuge before opening to ensure complete recovery of vial contents.*

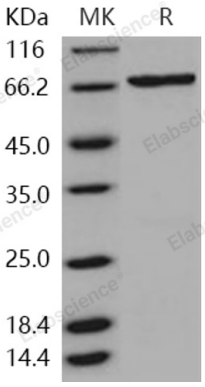
## Description

| | |
|---|---|
| **Species** | Human |
| **Source** | Baculovirus-Insect Cells-derived Human SGK3/SGKL protein Met 1-Leu 496, with an N-terminal His & GST |
| **Calculated MW** | 85.0 kDa |
| **Observed MW** | 68 kDa |
| **Accession** | Q96BR1-1 |
| **Bio-activity** | Not validated for activity |

## Properties

| | |
|---|---|
| **Purity** | > 80 % as determined by reducing SDS-PAGE. |
| **Endotoxin** | < 1.0 EU per μg of the protein as determined by the LAL method. |
| **Storage** | Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80 ℃. Reconstituted protein solution can be stored at 4-8℃ for 2-7 days. Aliquots of reconstituted samples are stable at < -20℃ for 3 months. |
| **Shipping** | This product is provided as lyophilized powder which is shipped with ice packs. |
| **Formulation** | Lyophilized from sterile 20mM Tris, 500mM NaCl, 0.5mM PMSF, 10% glycerol, 1mM GSH, pH 7.4<br>Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.<br>Please refer to the specific buffer information in the printed manual. |
| **Reconstitution** | Please refer to the printed manual for detailed information. |

## Data




> 80 % as determined by reducing SDS-PAGE.

## Background

Serine / threonine-protein kinase Sgk3, also known as Serum / glucocorticoid-regulated kinase 3, Serum / glucocorticoid-regulated kinase-like and SGK3, is a cytoplasmic vesicle protein which belongs to theprotein kinase superfamily and AGC Ser/Thr protein kinase family. SGK3 contains oneAGC-kinase C-terminal domain, oneprotein kinase domain and one PX (phox homology) domain. Two specific sites of SGK3, one in the kinase domain (Thr-320) and the other in the C-terminal regulatory region (Ser-486), is needed to be phosphorylated for its full activation. SGK3 is expressed in most tissues with highest levels in pancreas, kidney liver, heart and brain and lower levels in lung, placenta and skeletal muscle. SGK3 is involved in the activation of potassium channels. It mediates cell IL-3-dependent survival signals. SGK3 participates in the regulation of HERG by increasing HERG protein abundance in the plasma membrane and may thus modify the duration of the cardiac action potential. SGK3 is also a very important and characteristic molecule that plays a critical role in both hair follicle morphogenesis and hair cycling.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