Recombinant Human SGK3 / SGKL Protein (His & GST tag)

Cat.NO.: TP06464

3th Edition

Synonyms:CISK;SGK2;SGKL

Description: 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 the protein kinase superfamily and AGC Ser/Thr protein kinase family. SGK3 contains one AGC-kinase C-terminal domain, one protein 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.

Form:PBS

Molecular Weight:85 kDa

Sequences: Met 1-Leu 496

Purity:> 95% by HPLC

Concentration:

Endotoxin Level:<1.0 EU per 1 ug of protein (determined by LAL method)

Storage: Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.