

SGK3 Protein, Human (sf9, GST)

Cat. No.:	HY-P76063
Synonyms:	Serine/threonine-protein kinase Sgk3; Cytokine-independent survival kinase; SGK3; CISK; SGKL
Species:	Human
Source:	Sf9 insect cells
Accession:	Q96BR1 (Q2-L496)
Gene ID:	100533105
Molecular Weight:	Approximately 68 kDa

PROPERTIES

Appearance	Solution.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconstitution	Please use rapid thawing with running water to thaw the protein.
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

DESCRIPTION

Background	<p>SGK3 Protein, a serine/threonine-protein kinase, intricately regulates a diverse array of ion channels, membrane transporters, and cellular processes essential for growth, proliferation, survival, and migration. It exerts its influence by up-regulating key channels, including Na(+) channels (SCNN1A/ENAC and SCN5A), K(+) channels (KCNA3/KV1.3, KCNE1, KCNQ1, and KCNH2/HERG), epithelial Ca(2+) channels (TRPV5 and TRPV6), chloride channel (BSND), creatine transporter (SLC6A8), Na(+)/dicarboxylate cotransporter (SLC13A2/NADC1), Na(+)-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(+)/H(+) exchanger (SLC9A3/NHE3), and the Na(+)/K(+) ATPase. Notably, SGK3 plays a crucial role in the regulation of renal tubular phosphate transport and bone density. Moreover, it demonstrates its versatility by phosphorylating NEDD4L and GSK3B, positively regulating ER transcription activity through FLII phosphorylation, and negatively modulating ITCH/AIP4 function, thereby preventing efficient sorting of CXCR4 to lysosomes.</p>
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Caution: Product has not been fully validated for medical applications. For research use only.

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