

## SGK1

### Recombinant Human SGK Active GST

<b>Catalog No.</b>	CSI12247	<b>Quantity:</b>	50 µg
<b>Alternate Names:</b>	SGK, serine/threonine protein kinase SGK		
<b>Description:</b>	Human SGK1, full length, amino acids M1-L431 (as in GenBank entry NM_005627.2)*, activated, N-terminal GST-fusion protein, expressed in Sf9 insect cells <b>*Sequence may contain documented polymorphisms</b> <b>Detailed sequence on request</b>		
<b>Concentration:</b>	0.126 µg/µl		
<b>Gene ID:</b>	5446		
<b>Protein Accession No:</b>	NM_005627.2		
<b>Source:</b>	Baculovirus infected Sf9 cells		
<b>Molecular Weight:</b>	Theoretical MW <sub>Fusion Protein</sub> : 74,950 Da		
<b>Formulation:</b>	50 mM HEPES pH 7.5, 100 mM NaCl, 5 mM DTT, 15 mM reduced glutathione, 20% glycerol		
<b>Purification:</b>	GST-Affinity Chromatography		
<b>Product Identity:</b>	SGK1 was confirmed as SGK1 by mass spectroscopy LC-ESI-MS/MS		
<b>Activation:</b>	Coexpression with PDK1		
<b>Specific Activity:</b>	54 pmol/µg×min		

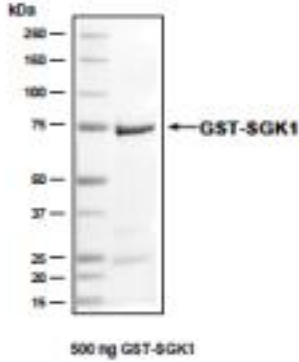
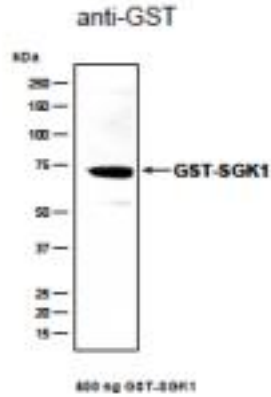
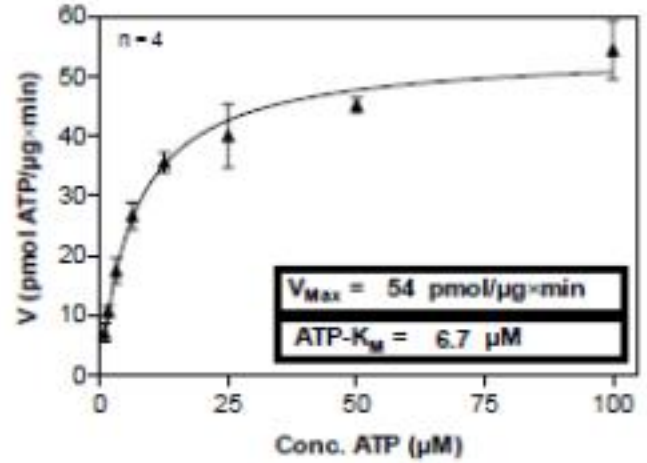
Method for determination of Km value and specific activity:

- Assay conditions:
  - 60 mM HEPES-NaOH, pH 7.5
  - 3 mM MgCl<sub>2</sub>
  - 3 mM MnCl<sub>2</sub>
  - 3 µM Na-orthovanadate
  - 1.2 mM DTT
  - 50 µg / ml PEG<sub>20,000</sub>
  - ATP (variable)
  - Substrate: GSK3-derived peptide (R<sub>11</sub>-SGRARTSSFAEPGGK), 40 µg / ml
  - SGK1: 2 µg / ml
- Filter binding assay
  - MSPH membrane (Millipore)



**Storage & Stability:**

Store in working aliquots at -80°C. Avoid repeated freeze-thaw cycles.

**Coomassie stain:****Western blot analysis:****Determination of  $K_m$  value for ATP:**

NOT FOR HUMAN USE. FOR RESEARCH ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.

