

## CSNK1A1

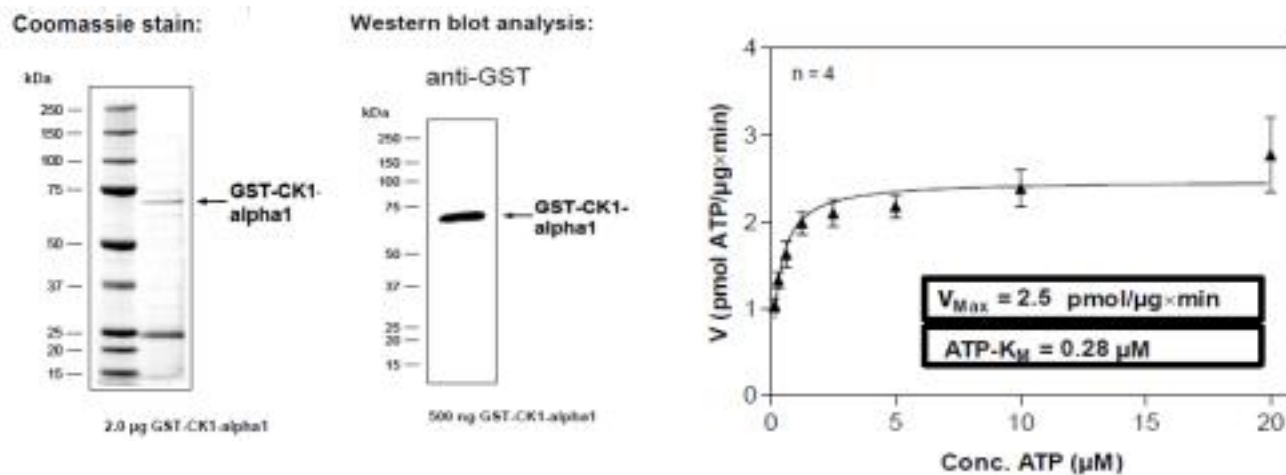
### Recombinant Human CSNK1A1/CK1 alpha 1 Active GST-His

<b>Catalog No.</b>	CRC042	<b>Quantity:</b>	50 µg
<b>Alternate Names:</b>	CK1, HLCDGP1, PRO2975, down-regulated in lung cancer		
<b>Description:</b>	Human CK1-alpha1 Amino acids M <sub>1</sub> -F <sub>365</sub> (as in GenBank entry DQ082865)*, N-terminally fused to GST-HIS <sub>6</sub> -Thrombin cleavage site. *Sequence may contain documented polymorphisms. Detailed sequence on request.		
<b>Concentration:</b>	0.058 µg/µl		
<b>Gene ID:</b>	1452		
<b>Protein Accession No:</b>	DQ082865		
<b>Source:</b>	Baculovirus infected Sf9 cells		
<b>Molecular Weight:</b>	Theoretical MW <sub>Fusion Protein</sub> : 71,434 Da		
<b>Formulation:</b>	50 mM Tris-HCl + pH 8.0 + 100 mM NaCl + 5 mM DTT + 4 mM reduced glutathione, 20% glycerol		
<b>Purification:</b>	One-step affinity purification using GSH-agarose		
<b>Product Identity:</b>	CK1-alpha1, was confirmed as human CK1-alpha1 by mass spectroscopy LC-ESI-MS/MS		
<b>Specific Activity:</b>	3 pmol/µg×min Method for determination of K <sub>m</sub> 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: Casein, 50 µg / ml Recombinant CK1-alpha1: 400 ng / ml • Filter binding assay MSFC membrane (Millipore)		



**Storage & Stability:** Store in working aliquots at -80°C. **Avoid repeated freeze-thaw cycles.**

Determination of  $K_m$  value for ATP:



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**Cell Sciences®**  
480 Neponset Street  
Bldg 12A  
Canton, MA 02021

Toll Free: 888-769-1246  
Phone: 781-828-0610  
Fax: 781-828-0542

E-mail: [info@cellsciences.com](mailto:info@cellsciences.com)  
Website: [www.cellsciences.com](http://www.cellsciences.com)