

PLK2

Recombinant Human Polo-like Kinase 2 Active GST-His

Catalog No.	CRS017	Quantity:	50 µg
Alternate Names:	SNK, polo-like kinase 2, serum-inducible kinase		
Description:	Human SNK, full length, amino acids M ₁ -N ₆₈₅ (as in GenBank entry NM_006622)*, N-terminal GST-HIS ₆ fusion protein with a Thrombin cleavage site, expressed in Sf9 insect cells *Sequence may contain documented polymorphisms Detailed amino acid sequence on request		
Concentration:	0.035 µg/µl		
Gene ID:	10769		
Protein Accession No:	NM_006622		
Source:	Baculovirus infected Sf9 cells		
Molecular Weight:	Theoretical MW _{Fusion Protein} : 107,562 Da		
Formulation:	50 mM HEPES pH 7.5, 100 mM NaCl, 5 mM DTT, 4 mM reduced glutathione, 20% glycerol		
Purification:	GST-Affinity Chromatography		
Product Identity:	SNK, was confirmed as SNK by mass spectroscopy LC-ESI-MS/MS		
Activation:	Activation with PDK1 (GenBank accession No.: NM_002613)		
Specific Activity:	69 pmol/µg×min		

Method for determination of K_m value and specific activity:

- Assay conditions:
60 mM HEPES-NaOH, pH 7.5
3 mM MgCl₂
3 mM MnCl₂
3 µM Na-orthovanadate
1.2 mM DTT
2.5 µg / 50 µl PEG_{20,000}
ATP (variable)
Substrate: CDC25C-derived peptide
(R₁₁-ISDELMDATFADQEAK), 10 µg / 50 µl
SNK: 200 ng / 50 µl
- Filter binding assay
MSPH membrane (Millipore)

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

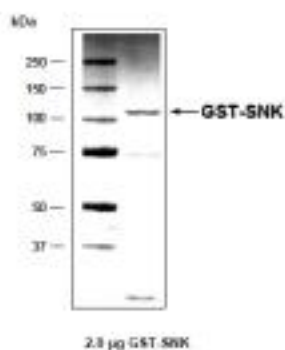


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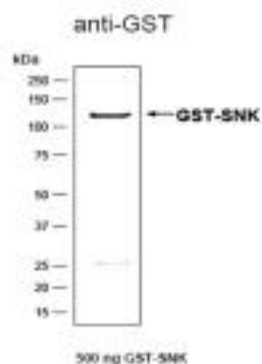
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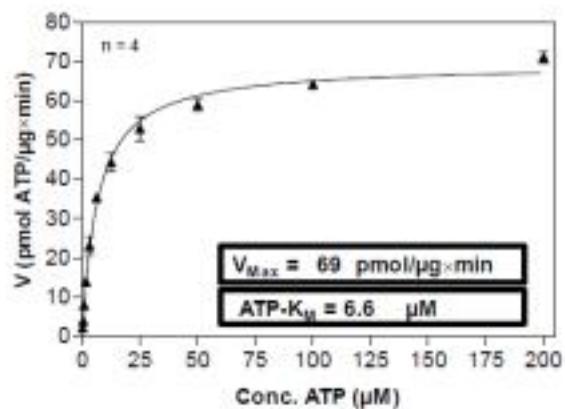
Coomassie stain:



Western blot analysis:



Determination of K_m value for ATP:



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