

PLK3

Recombinant Human Polo-like Kinase 3 Active GST-His

Catalog No.	CSI10920	Quantity:	50 µg
Alternate Names:	CNK, FNK, PRK, FGF-inducible kinase, cytokine-inducible kinase, polo-like kinase 3, proliferation-related kinase		
Description:	Human PLK3, full length, amino acids M ₁ -A ₆₀₇ (as in GenBank entry U56998)*, N-terminally fused to GST-HIS ₆ -Thrombin cleavage site, expressed in Sf9 insect cells. *Sequence may contain documented polymorphisms Detailed sequence on request		
Concentration:	0.097 µg/µl		
Gene ID:	1263		
Protein Accession No:	U56998		
Source:	Baculovirus infected Sf9 cells		
Molecular Weight:	Theoretical MW _{Fusion Protein} : 97,131 Da		
Formulation:	50 mM Tris-HCl, pH 8.0 + 100 mM NaCl + 5 mM DTT + 4 mM reduced glutathione, 20% glycerol		
Purification:	One-step affinity purification using GSH-agarose		
Product Identity:	PLK3 was confirmed as PLK3 by by mass spectroscopy LC-ESI-MS/MS		
Specific Activity:	131 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), 5 µg / 50 µl
PLK3: 200 ng / 50 µl
- Filter binding assay
MSPH membrane (Millipore)

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

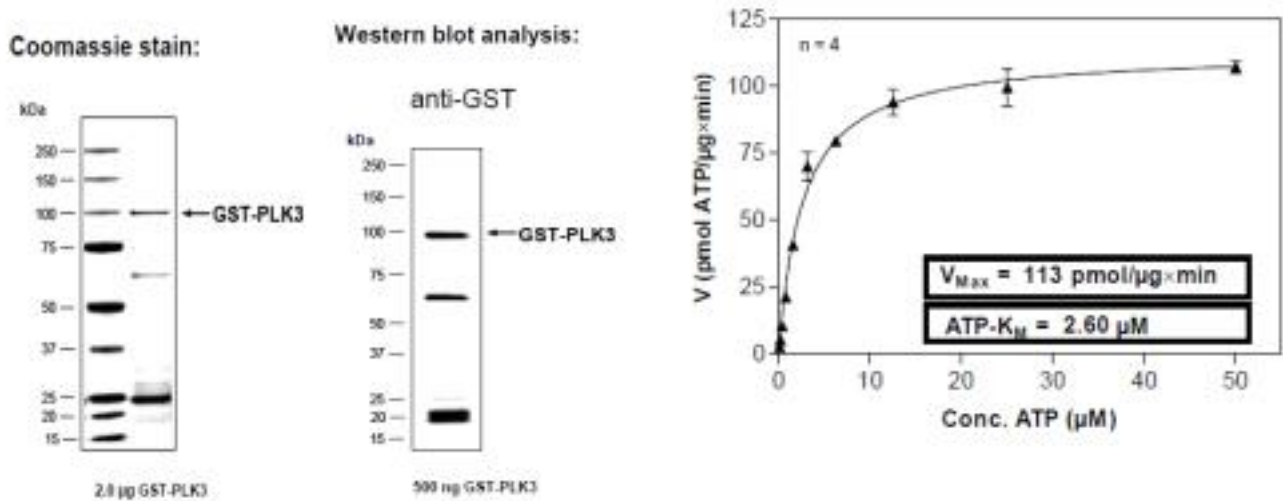


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Determination of K_m value for ATP:



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