

CHEK1

Recombinant Human CHEK1 Active GST-His

Catalog No.	CSI11175	Quantity:	50 µg
Alternate Names:	CHK1, CHK1 checkpoint homolog, Checkpoint, S. pombe, homolog of, 1		
Description:	Human CHK1, Amino acids M ₁ -T ₄₇₆ (as in GenBank entry NM_001274.2)*, N-terminally fused to GST-HIS ₆ -Thrombin cleavage site *Sequence may contain documented polymorphisms Detailed sequence on request		
Concentration:	0.109 µg/µl		
Gene ID:	1111		
Protein Accession No:	NM_001274.2		
Source:	Baculovirus infected Sf9 cells		
Molecular Weight:	Theoretical MW _{Fusion Protein} : 83,930 Da		
Formulation:	50 mM Tris-HCl, pH 8.0 + 100 mM NaCl + 5 mM DTT + 15 mM reduced glutathione, 20% glycerol		
Purification:	One-step affinity purification using GSH-agarose		
Product Identity:	CHK1 was confirmed as CHK1 by specific Western Blotting using anti CHK1 antibody		
Specific Activity:	20 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: S6-peptide
 (R₁₁-IAKRRRLSSLRASTSKSESSQK), 2 µg / 50 µl
 Recombinant CHK1: 100 ng / 50 µl
- Filter binding assay MSPH membrane (Millipore)

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

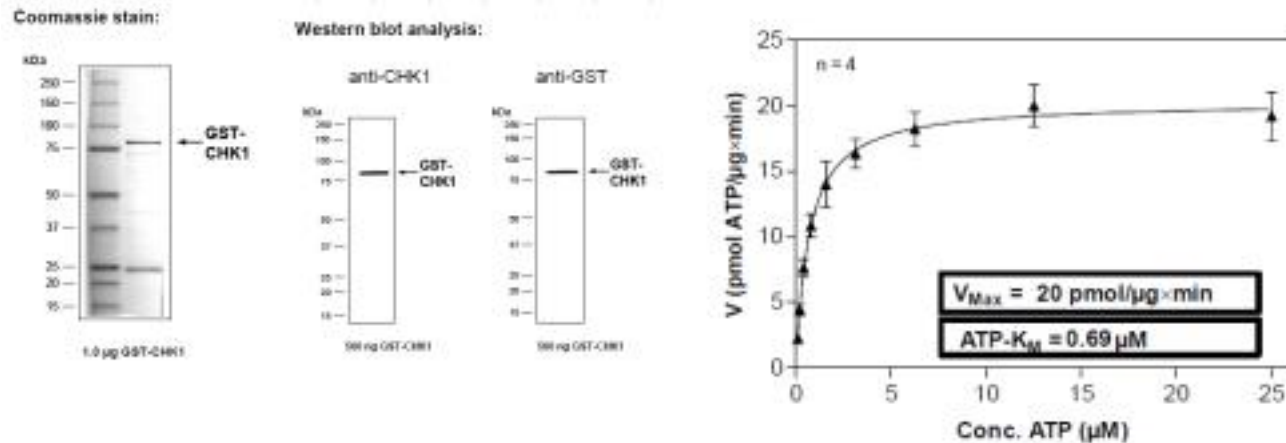


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Determination of K_m value for ATP:



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