

TTK

Recombinant Human TTK Active GST-His

Catalog No.	CRT015	Quantity:	50 µg
Alternate Names:	ESK, FLJ38280, MPS1, MPS1L1, PYT, phosphotyrosine picked threonine kinase (PYT)		
Description:	Human TTK, full length, amino acids M ₁ -K ₈₅₇ (as in GenBank entry NM_003318.3)*, N-terminal GST-HIS6 fusion protein with a Thrombin cleavage site, expressed in Sf9 insect cells. *Sequence may contain documented polymorphisms Detailed sequence on request		
Concentration:	0.064 µg/µl		
Gene ID:	7272		
Protein Accession No:	NM_003318.3		
Source:	Baculovirus infected Sf9 cells		
Molecular Weight:	Theoretical MW _{Fusion Protein} : 126,968 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:	TTK, was confirmed as TTK by mass spectroscopy LC-ESI-MS/MS		
Specific Activity:	4 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
50 µg / ml PEG_{20,000}
ATP (variable)
Substrate: RBER-CHKtide, 40 µg / ml
TTK: 4.0 µg / ml
- Filter binding assay
MSFC membrane (Millipore)

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

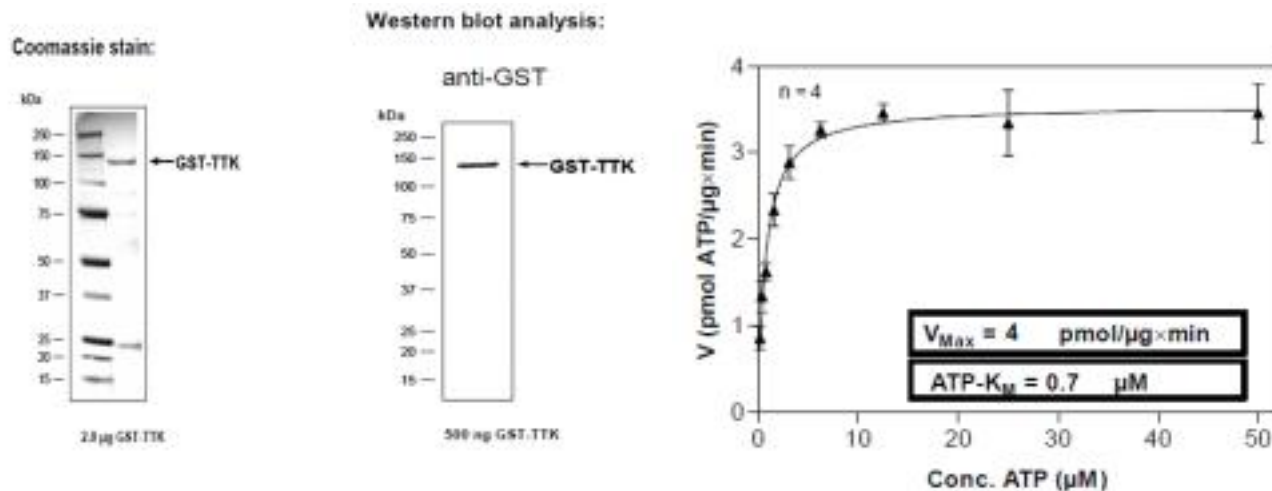


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Determination of K_m value for ATP:



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