DAPK1
Recombinant Human DAPK1 Active GST-His

Catalog No.	CRD002	**Quantity:**	50 µg

Alternate Names: DAPK, DKFZp781I035

Description: Human DAPK1 Amino acids M_1-L_{363} (as in GenBank entry NM_004938)*, N-terminally fused to GST-HIS_6-Thrombin cleavage site.
*Sequence may contain documented polymorphisms
Detailed sequence on request.

Concentration: 0.680 µg/µl

Gene ID: 1612

Protein Accession No: NM_004938

Source: Baculovirus infected Sf9 cells

Molecular Weight: Theoretical $MW_{Fusion\ Protein}$: 71,227 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: DAPK1 was confirmed as human DAPK1 by mass spectroscopy LC-ESI-MS/MS

Specific Activity: 85 pmol/µg×min
Method for determination of K_m value and specific activity:
• Assay conditions:
60 mM HEPES-NaOH, pH 7.5
3 mM $MgCl_2$
3 mM $MnCl_2$
3 µM Na-orthovanadate
1.2 mM DTT
2.5 µg / 50 µl $PEG_{20.000}$
ATP (variable)
Substrate: R_{11}-S6-Peptide
(R_{11}-IAKRRRLSSLRASTSKSESSQK), 10 µg / 50 µl
Recombinant DAPK1: 200 ng / 50 µl
• Filter binding assay
MSPH membrane (Millipore)

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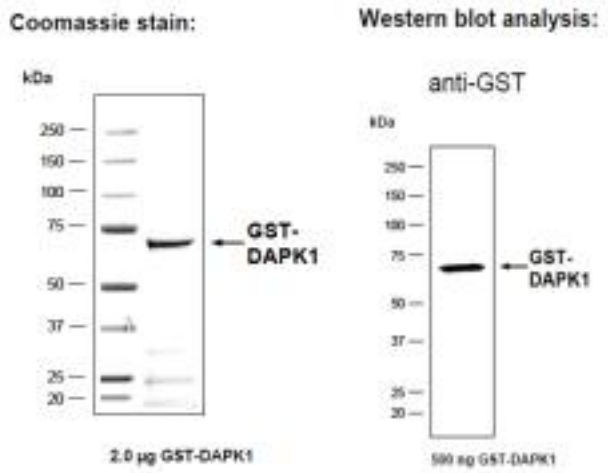
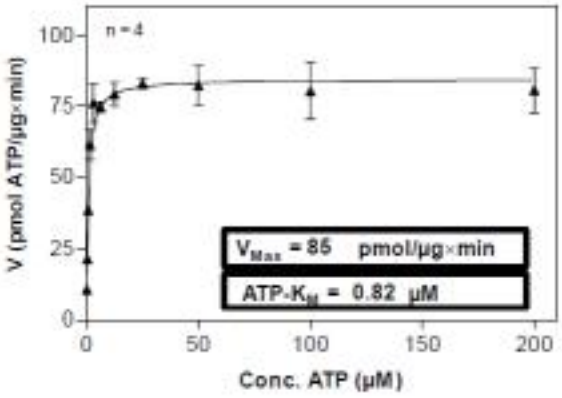
Storage & Stability: Store in working aliquots at -80°C. **Avoid repeated freeze-thaw cycles.**



Determination of Km value for ATP:



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