# VRK1
# Recombinant Human Vaccinia Related Kinase 1 Active GST-His

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|---|---|---|---|
| **Catalog No.** | CRV023 | **Quantity:** | 50 µg |

**Alternate Names:** Vaccinia virus B1R-related kinase 1, vaccinia-related kinase-1

**Description:** Human VRK1, Amino acids $M_1$-$K_{396}$ (as in GenBank entry NM_003384)*, N-terminally fused to GST-$HIS_6$-Thrombin cleavage site.
***Sequence may contain documented polymorphisms Detailed sequence on request**

**Concentration:** 0.269 µg/µl

**Gene ID:** 7443

**Protein Accession No:** NM_003384

**Source:** Baculovirus infected Sf9 cells

**Molecular Weight:** Theoretical $MW_{Fusion\ Protein}$: 75,142 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:** VRK1, was confirmed as VRK1 by mass spectroscopy LC-ESI-MS/MS

**Activation:** *in vitro* autoactivation

**Specific Activity:** 30 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 (R11-IAKRRRLSSLRASTSKSESSQK), 10 µg / 50 µl
Recombinant VRK1: 200 ng / 50 µl
• Filter binding assay
MAPH membrane (Millipore)

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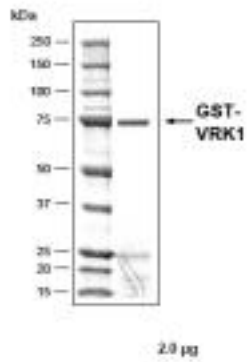
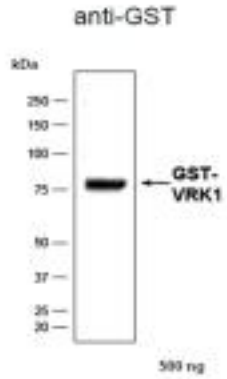
**Storage & Stability:** Store in working aliquots at -80°C. **Avoid repeated freeze-thaw cycles.**

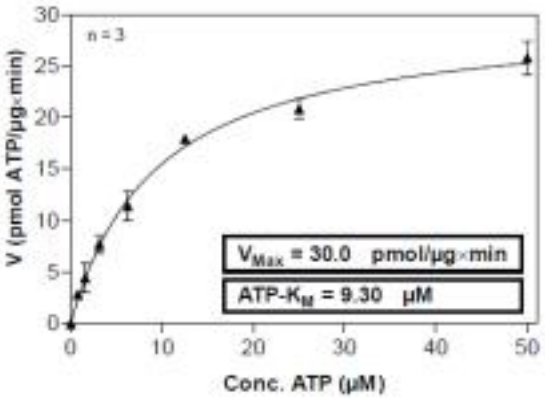
Coomassie stain:




Western blot analysis:




Determination of $K_m$ value for ATP:

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