JAK3
Recombinant Human Janus Kinase 3 Active GST-His

Catalog No.	CRJ004	**Quantity:**	50 µg

Alternate Names: JAK-3, JAK3_HUMAN, JAKL, L-JAK, LJAK, Janus kinase 3, leukocyte Janus kinase, tyrosine-protein kinase JAK3

Description: Human JAK3. Amino acids I_{781}-S_{1124} (as in GenBank entry NM_000215)*, N-terminally fused to GST-HIS_6-Thrombin cleavage site.
***Sequence may contain documented polymorphisms**
Detailed sequence on request

Concentration: 0.213 µg/µl

Gene ID: 3718

Protein Accession No: NM_000215

Source: Baculovirus infected Sf9 cells

Molecular Weight: Theoretical $MW_{Fusion\ Protein}$: 68,379 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: ITK was confirmed as ITK by mass spectroscopy LC-ESI-MS/MS

Specific Activity: 8 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: R11-TRK-C-derived Peptide (R_{11}-VYSTDYYRLFNPS), 2.5 µg / 50 µl
Recombinant JAK3: 200 ng / 50 µl
• Filter binding assay
MAFC membrane (Millipore)

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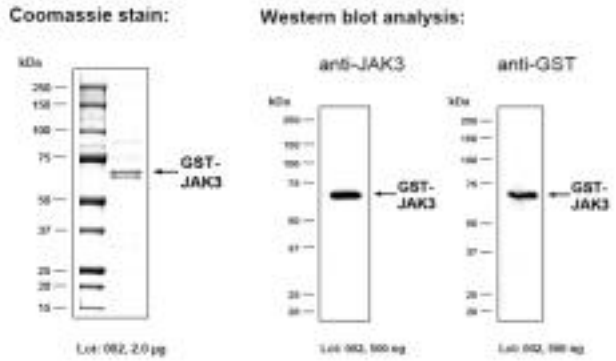
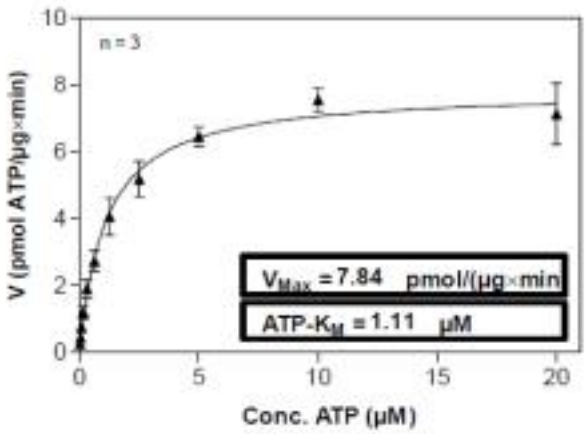
Storage & Stability: Store in working aliquots at -80°C. **Avoid repeated freeze-thaw cycles.**



Determination of K_M value for ATP



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