

JAK2

Recombinant Human JAK2 (JH1 JH2 V617F) (aa 532-1132) with GST Tag Active

Catalog No.	CSI10288	Quantity:	10 µg
Alternate Names:	Janus Kinase 2, Tyrosine-protein kinase JAK2, C81284, Fd17		
Description:	Recombinant Human Janus Kinase 2, catalytic and pseudokinase domain (amino acids 532-1132) with GST tag. Activated <i>in vitro</i> via auto-phosphorylation.		
Gene ID:	3717		
UniProtKB:	O60674		
Source:	Insect cells		
Molecular Weight:	97.9 kDa		
Formulation:	Liquid in 50 mM Tris, pH 7.5, 150 mM NaCl, 0.5 mM EDTA, 0.02% Triton X-100, 2 mM DTT and 50% glycerol		
Purity:	70% by SDS-PAGE		
Concentration:	190 µg/ml		
Specific Activity:	18 nmoles of phosphate transferred to AXLTide peptide substrate (KKSRGDYMTMQIG) per minute per mg of total protein at 30 °C. Activity determined at a final protein concentration of 4.17 µg/mL.		
Assay Conditions:	Dilution Buffer: 20 mM Tris (pH 7.5), 0.02% Triton X-100, 0.1 mg/mL BSA, 2 mM DTT, 0.5 mM Na₃VO₄ and 10% Glycerol. Recommended Activity Assay: Centrifuge vial prior to use for maximal recovery. Pre-dilute enzyme in Dilution Buffer to desired concentration. Assay in 25 mM HEPES (pH 7.5), 10 mM MgCl₂, 0.5 mM EGTA, 0.5 mM Na₃VO₄, 5 mM β-glycerophosphate, 2.5 mM DTT, 0.01% Triton X-100, 200 µM ATP, 200 µg/mL AXLTide peptide substrate (KKSRGDYMTMQIG) and trace [³²P]-γ-ATP for 10 minutes at 30 °C.		
Storage & Stability:	Store working aliquots at -80 °C for up to 6 months. Avoid repeated freeze-thaw cycles. Never store a kinase diluted.		

Activity profile of JAK2 JH1 JH2 V617F

Coomassie-stained SDS PAGE of JAK2 JH1 JH2 V617F. MW markers and 0.5, 1.0, 2.5, and 5.0 µg JAK2 JH1 JH2 V617F

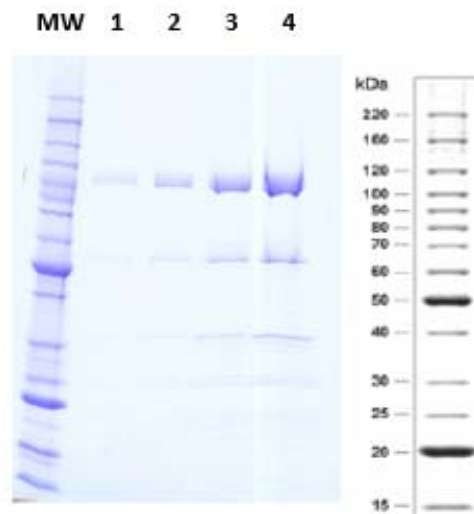
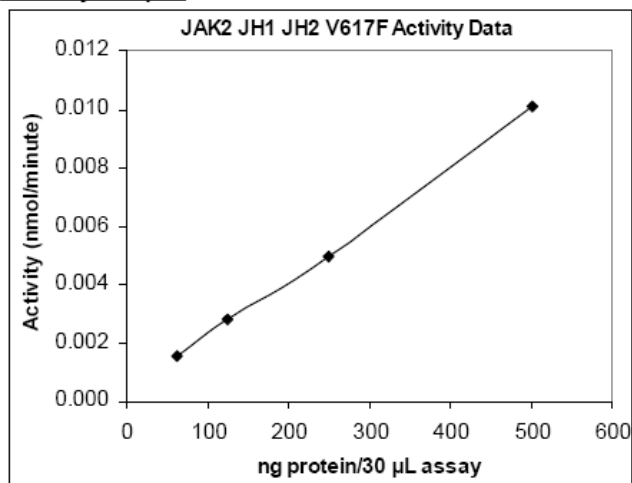


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Activity Graph:



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