

## Data Sheet

### Jak2 JH1 JH2

Human recombinant, N-terminal His-GST-tag  
**Catalog #:** 40451  
**Lot #:** 121023                      **Conc:** 0.11 mg/ml

**Formulated in:** 40 mM Tris-HCl, pH 8.0,  
 110 mM NaCl, 2.2 mM KCl, 235 mM  
 imidazole, and 20% glycerol.

**Stability:** >6 months at -80°C

**References:**

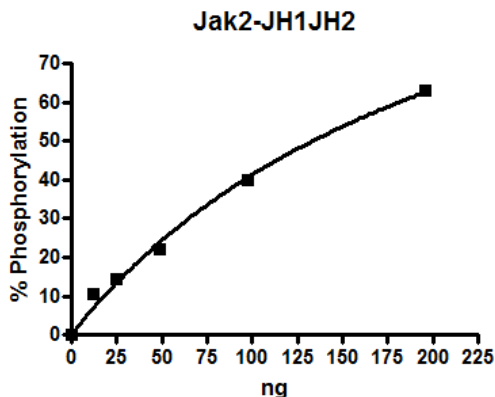
1. Tono, C., *et al.*, *Leukemia* **19** (10), 1843-1844 (2005).
2. Goertler, P.S., *et al.*, *Blood* **106** (8), 2862-2864 (2005).

**Description:** Human Jak2 (GenBank Accession No. NM\_004972), containing the catalytic and the pseudo kinase domains (a.a. 532-1132) with N-terminal His-GST tag, MW=98 kDa, expressed in a Baculovirus infected Sf9 cell expression system.

**Specific Activity:** 8 pmole/min/μg  
 Assay conditions: Enzyme reaction is conducted in a buffer containing 50 mM HEPES, pH 7.5, 10 mM MgCl<sub>2</sub>, 1 mM EGTA, 200 μM ATP, 0.01% Brij-35, 2 μM substrate (Tyr Peptide 6, Z-lyte kinase assay kit from Invitrogen), and ~100 ng enzyme at 37°C for 1 hour.

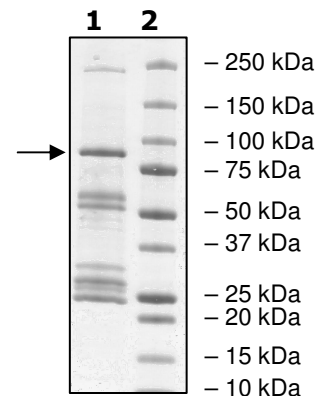
**Application:** Useful for studying enzyme kinetics, screening inhibitors, and selectivity profiling.

### Quality Assurance



**4-20% SDS-PAGE  
 Coomassie staining**

**Lane 1:**  
 1.4 μg Jak2 JH1 JH2  
**Lane 2:**  
 Protein Marker  
**MW:** 98 kDa  
**Purity:** ≥20%



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**Sequence:**

MHHHHHHGGGSPILGYWKIKGLVQPTRLLLEYLEEKYEEHLYERDEGDKWRNKKFELG  
LEFPNLPYYIDGDVKLTQSMAIIRYIADKHNMLGGCPKERAEISMLEGAVLDIRYGVSRIA  
YSKDFETLKVDFLSKLPEMLKMFEDRLCHKTYLNGDHVTHPDFMLYDALDVVLYMDPM  
CLDAFPKLVCFKKRIEAIPQIDKYLKSSKYIAWPLQGQWQATFGGGDHPKSDPLVPRGS  
PGEFMNQMVFHKIRNEDLIFNESLGQGTFTKIFKGVRRREVG DYGQLHETEVL LKVLDK  
AHRNYESFFEAASMMSKLSHKHLVLNYGVCVCGDENILVQEFVKFGSLDTYLKKNK  
NCINILWKLEVAKQLAWAMHFLEENTLIHGNVCAKNILLIREEDRKTGNPPFIKLSDPGI  
SITVLPKDILQERIPWVPPECIENPKNLNLATDKWSFGTTLWEICSGGDKPLSALDSQR  
KLQFYEDRHQLPAPKWAELANLINNCMDYEPDFRPSFRAIIRDLNSLFTP DYELLTEN  
DMLPNMRIGALGFSGAFEDRDPTQFEERHLKFLQQLGKGNFGSVEMCRYDPLQDNT  
GEVVAVKKLQHSTEEHLRDFEREIEILKSLQHDNIVKYKGCYSAGRRNLKLIMEYLPY  
GSLRDYLQKHKERIDHIKLLQYTSQICKGMEYLGTKRYIHRDLATRNILVENENRVKIG  
DFGLTKVLPQDKEYYKVKEPGESPIFWYAPESL TESKFSVASDVWSFGVVL YELFTYI  
EKSKSPPAEFMRMIGNDKQGQMIVFHLLIELLKNNGRLPRPDGCPDEIYMIMTECWNNN  
VNQRPSFRDLALRVDQIRDNMAG

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