

## Janus kinase 2/JAK2 Protein, Human (381aa, His)

|                   |   |
|-------------------|---|
| Cat. No.:         | HY-P701102  |
| Synonyms:         | JAK 2; JAK-2; JAK2; JAK2_HUMAN; Janus Activating Kinase 2; Janus kinase 2 (a protein tyrosine kinase); Janus kinase 2; JTK 10; JTK10; kinase Jak2; OTTHUMP00000043260; THCYT3; Tyrosine protein kinase JAK2; Tyrosine-protein kinase JAK2 |
| Species:          | Human   |
| Source:           | E. coli   |
| Accession:        | O60674-1 (H752-G1132)   |
| Gene ID:          | 3717  |
| Molecular Weight: | Approximately 48.6 kDa  |

### PROPERTIES

|                     |  |
|---------------------|--|
| AA Sequence         | <p>K P L S A L D S Q R    K L Q F Y E D R H Q    L P A P K W A E L A    N L I N N C M D Y E</p> <p>P D F R P S F R A I    I R D L N S L F T P    D Y E L L T E N D M    L P N M R I G A L G</p> <p>F S G A F E D R D P    T Q F E E R H L K F    L Q Q L G K G N F G    S V E M C R Y D P L</p> <p>Q D N T G E V V A V    K K L Q H S T E E H    L R D F E R E I E I    L K S L Q H D N I V</p> <p>K Y K G V C Y S A G    R R N L K L I M E Y    L P Y G S L R D Y L    Q K H K E R I D H I</p> <p>K L L Q Y T S Q I C    K G M E Y L G T K R    Y I H R D L A T R N    I L V E N E N R V K</p> <p>I G D F G L T K V L    P Q D K E Y Y K V K    E P G E S P I F W Y    A P E S L T E S K F</p> <p>S V A S D V W S F G    V V L Y E L F T Y I    E K S K S P P A E F    M R M I G N D K Q G</p> <p>Q M I V F H L I E L    L K N N G R L P R P    D G C P D E I Y M I    M T E C W N N N V N</p> <p>Q R P S F R D L A L    R V D Q I R D N M A    G</p> |
| Appearance          | Lyophilized powder.  |
| Formulation         | Lyophilized from a 0.22 µm filtered solution of PBS, 6% Trehalose, pH 7.4.   |
| Endotoxin Level     | <1 EU/µg, determined by LAL method.  |
| Reconstitution      | It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH <sub>2</sub> O.  |
| Storage & Stability | Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.   |
| Shipping            | Room temperature in continental US; may vary elsewhere.  |

### DESCRIPTION

|            |  |
|------------|--|
| Background | JAK2 is a member of the Janus kinase (JAKs) family of non-receptor protein tyrosine kinases, which includes JAK1-3 and TYK2. JAKs serve as the cytoplasmic signaling components of cytokine receptors and are activated through cytokine-mediated trans-phosphorylation, which leads to receptor phosphorylation and recruitment and phosphorylation of signal |
|------------|--|

---

transducer and activator of transcription (STAT) proteins. JAKs are non-receptor protein tyrosine kinases that serve as the catalytic signaling components for a wide range of cytokine receptors, including the receptors for interleukins, interferons, growth hormone, erythropoietin, and leptin<sup>[1][2]</sup>.

---

**Caution: Product has not been fully validated for medical applications. For research use only.**

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA