# Product Data Sheet

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|---|---|
| Product Name: | JAK2 Human |
| Cat. No.: | GP22536 |
| Batch No.: | 1 |

## Product Data

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|---|---|---|---|
| Purity | >98% | Source | E.coli. |
| Phycical Appearance | solid | Shipping Condition | Shipped with Ice Packs. |
| Synonyms | Tyrosine-protein kinase JAK2; Janus kinase 2; JAK-2; JAK2; Janus kinase 2 (a protein tyrosine kinase); JTK10. | | |
| Amino Acid Sequence | MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSHMGE SPIFWYAPES LTESKFSVAS DVWSFGVVLY ELFTYIEKSK SPPAEFMRMI GNDKQGQMIV FHLIELLKNN GRLPRPDGCP DEIYMIMTEC WNNNVNQRPS FRDLALRVDQ IRDNMAG. | | |
| Formulation | JAK2 protein solution (1mg/ml) containing 20mM Tris-HCl buffer (pH 8.0), 10% glycerol and 0.4M Urea. | | |

## Introduction

Janus Kinase 2 (JAK2) is a protein tyrosine kinase which takes part in a specific subset of cytokine receptor signaling pathways such as cell growth, development, differentiation or histone modifications. JAK2 is linked with the prolactin receptor and is necessary for responses to gamma IFN. Mice which do not express an active protein for JAK2 show embryonic lethality associated with the absence of definitive erythropoiesis.

## Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).Avoid multiple freeze-thaw cycles.

## Background

JAK2 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 157 amino acids (1014-1132 a.a) and having a molecular mass of 18.1kDa.JAK2 is fused to a 37 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.


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