



Synonym

Tyk2, tyrosine kinase 2

Source

Human Tyk2 Protein, His Tag (TY2-H5548) is expressed from Baculovirus-Insect cells. It contains AA Asn 575 - Leu 869 (Accession # [P29597-1](#)).

Predicted N-terminus: His

Molecular Characterization

Poly-his Tyk2(Asn 575 - Leu 869)
P29597-1

This protein carries a polyhistidine tag at the N-terminus.

The protein has a calculated MW of 35.2 kDa. The protein migrates as 35 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

Endotoxin

Less than 1.0 EU per μg by the LAL method.

Purity

>90% as determined by SDS-PAGE.

Formulation

Supplied as 0.2 μm filtered solution in 50 mM Tris, 150 mM NaCl, 1 mM DTT, PH7.5 with glycerol as protectant.

Contact us for customized product form or formulation.

Shipping

This product is supplied and shipped with dry ice, please inquire the shipping cost.

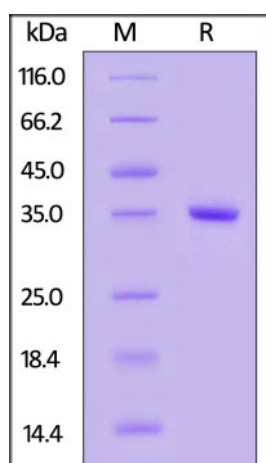
Storage

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

- The product MUST be stored at -70°C or lower upon receipt;
- -70°C for 3 months under sterile conditions.

SDS-PAGE



Human Tyk2 Protein, His Tag on SDS-PAGE under reducing (R) condition.

The gel was stained with Coomassie Blue. The purity of the protein is greater than 90%.

Background

Tyk2 was the first member of the JAK family that was described (the other members are JAK1, JAK2, and JAK3). It has been implicated in IFN- α , IL-6, IL-10 and IL-12 signaling. Tyk2 functions primarily in IL-12 and type I-IFN signaling. Tyk2 deficiency has more dramatic effects in human cells than in mouse cells. However, in addition to IFN- α and - β and IL-12 signaling, Tyk2 has major effects on the transduction of IL-23, IL-10, and IL-6 signals. Recently, it has been recognized that IL-12 and IL-23 share ligand and receptor subunits that activate Tyk2. Tyk2 is activated by IL-10, and its deficiency affects the ability to generate and respond to IL-10.

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