

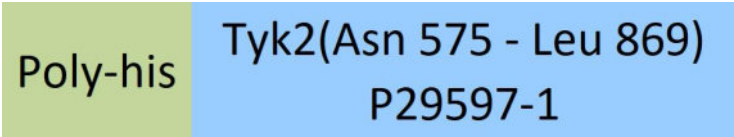
Synonym

Tyk2,tyrosine kinase 2

Source

Human Tyk2, His Tag (TY2-H5549) is expressed from Baculovirus-Insect cells. It contains AA Asn 575 - Leu 869 (Accession # [P29597-1](#)).
Predicted N-terminus: Met

Molecular Characterization



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

The protein has a calculated MW of 35.0 kDa. The protein migrates as 35 kDa under reducing (R) condition (SDS-PAGE).

Endotoxin

Less than 1.0 EU per µg by the LAL method.

Purity

>95% as determined by SDS-PAGE.

>90% as determined by SEC-MALS.

Formulation

Supplied as 0.2 µm filtered solution in 50 mM HEPES, 500 mM NaCl, 2 mM TCEP, pH7.5 with glycerol as protectant.

Contact us for customized product form or formulation.

Storage

Please avoid repeated freeze-thaw cycles.

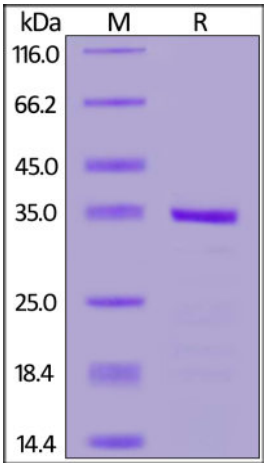
This product is stable after storage at:

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

Shipping

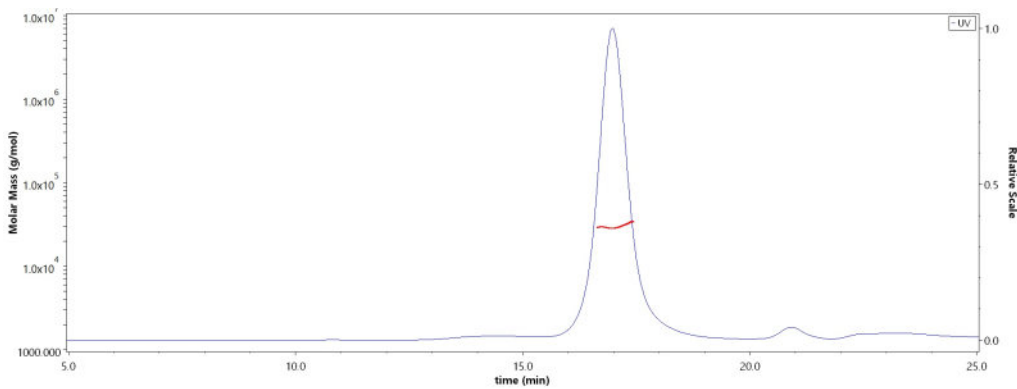
This product is supplied and shipped as sterile liquid solution with dry ice, please inquire the shipping cost.

SDS-PAGE



Human Tyk2, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.

SEC-MALS



The purity of Human Tyk2, His Tag (Cat. No. TY2-H5549) is more than 90% and the molecular weight of this protein is around 27-37 kDa verified by SEC-MALS.

[Report](#)

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.

Clinical and Translational Updates

Please contact us via TechSupport@acrobiosystems.com if you have any question on this product.