



### Synonym

TYRO3,BYK,DTK,RSE,SKY,TIF

### Source

Human TYRO3, Fc Tag(TY3-H5251) is expressed from human 293 cells (HEK293). It contains AA Ala 41 - Ser 428 (Accession # [AAH51756.1](#) (Q261H)).

Predicted N-terminus: Ala 41

### Molecular Characterization



This protein carries a human IgG1 Fc tag at the C-terminus.

The protein has a calculated MW of 68.2 kDa. The protein migrates as 86-106 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

### Endotoxin

Less than 1.0 EU per µg by the LAL method.

### Purity

>95% as determined by SDS-PAGE.

### Formulation

Lyophilized from 0.22 µm filtered solution in Tris with Glycine, Arginine and NaCl, pH7.5 with trehalose as protectant.

Contact us for customized product form or formulation.

### Reconstitution

Please see Certificate of Analysis for specific instructions.

*For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.*

### Storage

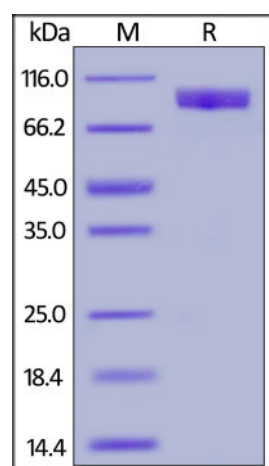
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

*Please avoid repeated freeze-thaw cycles.*

This product is stable after storage at:

- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

### SDS-PAGE

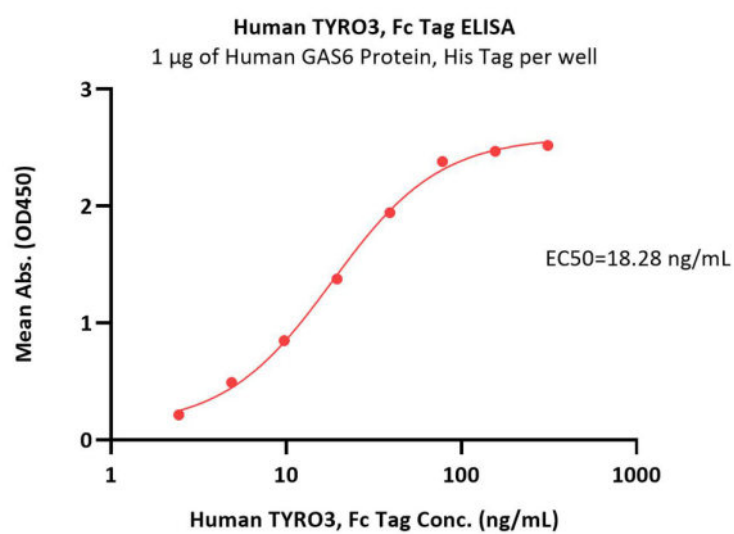


Human TYRO3, Fc Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 95%.

### Bioactivity-ELISA

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Immobilized Human GAS6 Protein, His Tag (Cat. No. GA6-H5246) at 10 µg/mL (100 µL/well) can bind Human TYRO3, Fc Tag (Cat. No. TY3-H5251) with a linear range of 2.5-20 ng/mL (QC tested).

## Background

Tyrosine-protein kinase receptor TYRO3 is also known as Tyrosine-protein kinase BYK, DTK, RSE, SKY, TIF, which belongs to the protein kinase superfamily, Tyr protein kinase family and AXL/UFO subfamily. TYRO3 regulates many physiological processes including cell survival, migration and differentiation. TYRO3 activates the AKT survival pathway, including nuclear translocation of NF-kappa-B and up-regulation of transcription of NF-kappa-B-regulated genes. TYRO3 interacts (via N-terminus) with extracellular ligands TULP1 and GAS6 By similarity and also interacts with PIK3R1, this interaction increases PI3-kinase activity.

## Clinical and Translational Updates

Please contact us via [TechSupport@acrobiosystems.com](mailto:TechSupport@acrobiosystems.com) if you have any question on this product.

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