Recombinant TYRO3 protein (His tag)

Catalog Number	547206
Synonyms	Tyrosine-protein kinase BYK; Tyrosine-protein kinase DTK; Tyrosine-protein kinase RSE; Tyrosine-protein kinase SKY; Tyrosine-protein kinase TIF
Species	Human
Expression System	E. coli
Accession	Q06418
Molecular Weight	Predictes a molecular mass of 42.53 kDa. In SDS-PAGE under reducing conditions, it migrates as an approximately 43 kDa band.

Product Information

Sequence Region	50-429
Form	Lyophilized powder
Formulation	Lyophilized from sterile PBS, pH 7.4
Purity	>89%, by SDS-PAGE with Coomassie Brilliant Blue staining.
Endotoxin	Not tested.
Activity	Not tested.
Stability	Samples are stable for up to twelve months from date of receipt at -70℃
Protein Construction	DNA encoding 50-429 aa (Q06418) were fused with 6His tag.

Storage & Handling

Reconstitution	Reconstitute at 0.25 μg/μl in sterile water for short-term storage. Reconstitution with 50% glycerol solution is recommended for longer term storage (see Stability and Storage for more details). If a different concentration is needed for your purposes please adjust the reconstitution volume as required (please note: the ion concentration of the final solution will vary according to the volume used). Note: Centrifuge vial before opening. When reconstituting, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution.
Storage	Store it under sterile conditions at -20℃ to -80℃. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Shipping	In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature. Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise.

Description

Description	This recombinant protein is a fragment of human Tyrosine-protein kinase receptor TYRO3 (EC 2.7.10.1), spanning amino acids 50-429. It includes the Ig-like C2-type 2 and two Fibronectin type-III domains, making it an excellent tool for investigating domain-specific functions in receptor signaling, cell survival, and immune regulation. The full-length TYRO3 receptor is a membrane-bound tyrosine kinase that transduces extracellular signals by binding ligands such as GAS6 and TULP1. It regulates critical processes including cell survival, migration, differentiation, and platelet aggregation through pathways like PI3K/AKT and NF-κB. TYRO3 also modulates innate immunity by activating STAT1 to induce SOCS1/SOCS3, thereby inhibiting Toll-like receptor responses. Additionally, it serves as a receptor for viruses like Lassa and Ebolavirus via GAS6-mediated virion attachment. As a single-pass type I membrane protein, it localizes to the cell membrane where it dimerizes and autophosphorylates upon ligand binding to initiate downstream signaling cascades.