

## Product Data Sheet

## TYRO3/DTK Protein, Mouse (HEK293, His)

Cat. No.:	HY-P77863
Synonyms:	BYK; DTK; RSE; SKY; TIF; TYRO3; Brt; Rse
Species:	Mouse
Source:	HEK293
Accession:	P55144-2 (R31-D419)
Gene ID:	22174
Molecular Weight:	60-75 kDa

Biological Activity       The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.	
<b>Biological Activity</b> The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.	
Appearance Solution.	
<b>Formulation</b> Supplied as a 0.22 μm filtered solution of PBS, pH 7.4.	
<b>Endotoxin Level</b> <1 EU/µg, determined by LAL method.	
Reconsititution N/A.	
Storage & Stability Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.	
Shipping Shipping with dry ice.	

## DESCRIPTION

Background	The TYRO3/DTK protein, a receptor tyrosine kinase, transduces signals from the extracellular matrix by binding to various ligands, including TULP1 or GAS6. It plays a crucial role in regulating numerous physiological processes, encompassing cell survival, migration, and differentiation. Upon ligand binding at the cell surface, TYRO3 undergoes dimerization and autophosphorylation on its intracellular domain, creating docking sites for downstream signaling molecules. Upon activation, TYRO3 interacts with PIK3R1, enhancing PI3-kinase activity and activating the AKT survival pathway, leading to nuclear translocation of NF-kappa-B and up-regulation of transcription of NF-kappa-B-regulated genes. TYRO3 signaling is implicated in processes such as neuron protection from excitotoxic injury, platelet aggregation, and cytoskeleton reorganization. Additionally, TYRO3 plays a crucial role in inhibiting Toll-like receptors (TLRs)-mediated innate immune responses by activating STAT1, which selectively induces the production of suppressors of cytokine signaling SOCS1 and SOCS3.

## Caution: Product has not been fully validated for medical applications. For research use only.

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