

Recombinant Mouse Tyro3 Protein, Myc/DDK-tagged

Cat. No. Tyro3-6758M Lot. No. (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length TYRO3 protein tyrosine kinase 3 (cDNA clone MGC:90668 IMAGE:30356080), complete cds, with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	Receptor tyrosine kinase that transduces signals from the extracellular matrix into the cytoplasm by binding to several ligands including TULP1 or GAS6. Regulates many physiological processes including cell survival, migration and differentiation. Ligand binding at the cell surface induces dimerization and autophosphorylation of TYRO3 on its intracellular domain that provides docking sites for downstream signaling molecules. Following activation by ligand, interacts with PIK3R1 and thereby enhances PI3-kinase activity. Activates the AKT survival pathway, including nuclear translocation of NF-kappa-B and up-regulation of transcription of NF-kappa-B-regulated genes. TYRO3 signaling plays a role in various processes such as neuron protection from excitotoxic injury, platelet aggregation and cytoskeleton reorganization. Plays also an important role in inhibition of Toll-like receptors (TLRs)-mediated innate immune response by activating STAT1, which selectively induces production of suppressors of cytokine signaling SOCS1 and SOCS3.
Molecular Mass	145.2 kDa

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Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade after receiving vials.
Concentration	>50 µg/mL as determined by microplate BCA method
Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name	Tyro3 TYRO3 protein tyrosine kinase 3 [<i>Mus musculus</i> (house mouse)]
Official Symbol	Tyro3
Synonyms	Tyro3; TYRO3 protein tyrosine kinase 3; R; Br; Sk; Ti; Brt; Dtk; Rse; Sky; Tif; Etk-2; TK19-2; tk19-1; AI323366; etk2/tyro3; tyrosine-protein kinase receptor TYRO3; receptor tyrosine kinase; tyrosine-protein kinase DTK; tyrosine-protein kinase RSE; tyrosine-protein kinase TIF; EC 2.7.10.1
Gene ID	22174
mRNA Refseq	NM_019392
Protein Refseq	NP_062265
UniProt ID	P55144

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