Recombinant Protein Technical Manual

Recombinant Mouse TYRO3/DTK Protein (mFc Tag)

RPES3655

Product Data:

Product SKU: RPES3655

Size: 10µg

Species: Mouse

Expression host: Human Cells

Uniprot: P55144

Protein Information:

Molecular Mass:	68.2 kDa
AP Molecular Mass:	60-90 kDa
Tag:	C-mFc
Bio-activity:	
Purity:	> 95 % as determined by SDS-PAGE
Endotoxin:	< 1.0 EU per µg as determined by the LAL method.
Storage:	Lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8℃ for 2-7 days. Aliquots of reconstituted samples are stable at < -20℃ for 3 months.
Shipping:	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation:	Lyophilized from a 0.2 µm filtered solution of PBS, pH7.4.
Reconstitution:	Please refer to the printed manual for detailed information.
Application:	
Synonyms:	Tyrosine-protein kinase receptor TYRO3;Tyro3;Etk2/tyro3;TK19-2;Tyrosine-protein kinase DTK;Tyrosine-protein kinase RSE;Tyrosine-protein kinase TIF

Immunogen Information:

Sequence: Ala31-Ser418

Background:

Dtk, also called Tyro3, belongs to the TAM receptor family of receptor protein tyrosine kinases (RPTKs) composed of three receptors Tyro3, Axl, and Mer. These receptors share a characteristic molecular structure of two immunoglobulin-like and two fibronectin type III repeats and have been best characterized for their roles in immune regulation, fertility, thrombosis and phagocytosis. Gas6 and protein S have been identified as ligands for these receptors. Gas6 binding induces tyrosine phosphorylation and downstream signaling pathways that can lead to cell proliferation, migration, or the prevention of apoptosis. Tyro3 and Axl play important regulatory roles in a variety of tissues, including the central nervous, reproductive, immune, and vascular systems. Tyro3 is widely expressed during embryonic development and preferentially expressed during neurogenesis in the central nervous system.