

## Dtk Protein, Mouse, Recombinant (mFc)

### General Information

Synonyms:	TK19-2;Tyrosine-protein kinase RSE;Etk2/tyro3;Tyrosine-protein kinase receptor TYRO3; Tyrosine-protein kinase TIF;Tyro3;Tyrosine-protein kinase DTK
Protein Construction:	Ala31-Ser418
Species:	Mouse
Expression Host:	HEK293 Cells
Accession:	P55144
Molecular Weight:	60-90 KDa (reducing condition)
AA Sequence:	Ala31-Ser418

### QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Endotoxin:	< 0.1 ng/μg (1 EU/μg) as determined by LAL test.
Formulation:	Lyophilized from a solution filtered through a 0.22 μm filter, containing PBS, pH 7.4.

### Preparation and Storage

#### Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 μg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

#### Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

#### Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

### Protein 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

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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.

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