

# Recombinant Human TYRO3 Protein Tyrosine Kinase, GST-His

**Cat. No.** TYRO3-749H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                              |
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| <b>Product Overview</b> | Recombinant Human TYRO3 Protein Tyrosine Kinase Amino acids R452-C890, N-terminally fused to GST-His6-Thrombin cleavage site. It is expressed in <i>Baculovirus</i> infected <i>Sf9</i> cells.                                                                                                                                                                                                                                               |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Source</b>           | Sf9 Cells                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>ProteinLength</b>    | 452-890 a.a.                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Description</b>      | Dtk belongs to a recently recognized subfamily of receptor tyrosine kinases that also includes Ufo (Axl/Ark) and Mer (Eyk). Ligands for Dtk and Ufo have been identified as protein S and the related molecule Gas6, respectively. Dtk is likely to be involved in the regulation of hematopoiesis, particularly during the embryonic stages of blood cell development. DTK is also abundantly expressed in adult kidney, testis, and ovary. |
| <b>Purification</b>     | One-step affinity purification using GSH-agarose.                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Product Identity</b> | TYRO3 was confirmed as human TYRO3 by mass spectroscopy LC-ESI-MS/MS (Protagen AG, Germany).                                                                                                                                                                                                                                                                                                                                                 |
| <b>MW</b>               | 78.384 Da.                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Storage Buffer</b>   | 50 mM Tris-HCl, pH 8.0; 100 mM NaCl, 5 mM DTT, 4 mM reduced glutathione, 20% glycerol.                                                                                                                                                                                                                                                                                                                                                       |

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|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Concentration</b>       | 0.086 µg/µl.                                                                                                                                                                                                                                          |
| <b>Specific Activity</b>   | 129 pmol/µg×min.                                                                                                                                                                                                                                      |
| <b>Storage</b>             | -80°C. Avoid repeated freeze-thaw cycles!                                                                                                                                                                                                             |
| <b>GENE INFORMATION</b>    |                                                                                                                                                                                                                                                       |
| <b>Gene Name</b>           | TYRO3 TYRO3 protein tyrosine kinase [ Homo sapiens ]                                                                                                                                                                                                  |
| <b>Synonyms</b>            | TYRO3; TYRO3 protein tyrosine kinase; BYK; Brt; Dtk; RSE; Sky; Tif; FLJ16467; Tyrosine-protein kinase receptor TYRO3; Tyrosine-protein kinase RSE; Tyrosine-protein kinase SKY; Tyrosine-protein kinase DTK; Tyrosine-protein kinase byk; EC 2.7.10.1 |
| <b>Gene ID</b>             | 7301                                                                                                                                                                                                                                                  |
| <b>mRNA Refseq</b>         | NM_006293                                                                                                                                                                                                                                             |
| <b>Protein Refseq</b>      | NP_006284                                                                                                                                                                                                                                             |
| <b>MIM</b>                 | 600341                                                                                                                                                                                                                                                |
| <b>UniProt ID</b>          | Q06418                                                                                                                                                                                                                                                |
| <b>Chromosome Location</b> | 15q15.1-q21.1                                                                                                                                                                                                                                         |
| <b>Function</b>            | ATP binding; nucleotide binding; phosphoinositide 3-kinase binding; protein binding; receptor activity; receptor signaling protein tyrosine kinase activity; transferase activity; transmembrane receptor protein tyrosine kinase activity            |

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