

Recombinant Human Human Tie-1 (C-6His) Catalog No: C502

Description Recombinant Human Tyrosine Kinase with Immunoglobulin and Epidermal Growth Factor Homology

Domains 1 is produced by our Mammalian expression system and the target gene encoding Ala22-

Gln760 is expressed with a 6His tag at the C-terminus.

Expression System

Human cells

Alternative name

Tyrosine-Protein Kinase Receptor Tie-1; TIE1; TIE

Accession No.

P35590

Predicted

81kDa

Molecular Weight

Apparent Molecular Weight

87kDa, reducing conditions.

Quality Control

Purity: greater than 95% as determined by reducing SDS-PAGE. Endotoxin: less than 0.1 $ng/\mu g$ (1 $EU/\mu g$) as determined by LAL test.

Formulation

Lyophilized from a 0.2 µm filtered solution of 20mM Tris-HCl, 500mM NaCl, 10% Sucrose, pH 8.2.

Reconstitution

It is not recommended to reconstitute to a concentration less than 100µg/ml.

Dissolve the lyophilized protein in distilled water.

Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

Shipping

The product is shipped at ambient temperature.

Upon receipt, store it immediately at the temperature listed below.

Storage

Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples

are stable at < -20°C for 3 months.

Always centrifuge tubes before opening. Do not mix by vortex or pipetting.

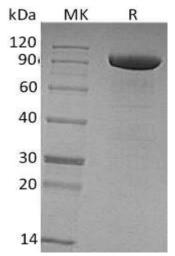
Background

TIE-1 (Tyrosine Kinase with Ig and EGF Homology domains 1) and TIE-2/Tek comprise a receptor tyrosine kinase (RTK) subfamily. These receptors are expressed on endothelial and hematopoietic progenitor cells and play critical roles in angiogenesis, vasculogenesis and hematopoiesis. Human TIE-1 cDNA encodes a 1124 amino acid (aa) residue precursor protein with an 18aa signal peptide, a 727 aa extracellular domain and a 354 aa cytoplasmic domain. so far, two ligands have been

described for TIE-2 [angiopoietin-1 (Ang1)

and angiopoietin-2 (Ang2)], but no ligand was found for TIE-1.

SDS-PAGE



MK: Marker

R: Sample under reducing conditions

