www.neobiolab.com
info@neobiolab.com
888.754.5670, +1 617.500.7103 United States
0800.088.5164, +44 020.8123.1558 United Kingdom

TIE2 Fc Mouse

Catalog #:PKPS-256

For research use only.

Description: Soluble TIE-2 Mouse Recombinant fused with the Fc part of human IgG1 produced in CHO is a glycosylated disulfide-linked homodimer, polypeptide containing amino acids 119-740 amino acids and having a total molecular mass of 280 kDa. Mouse TIE-2/Fc monomer has a calculated molecular mass of approximately 105 kDa. As a result of glycosylation, the recombinant protein migrates as an approximately 140 kDa protein in SDS-PAGE under reducing conditions.The TIE2 Fc Chimera is purified by proprietary chromatographic techniques.

Synonyms: Angiopoietin-1 receptor precursor, Tyrosine-protein kinase receptor TIE-2, hTIE2, Tyrosine-protein kinase receptor TEK, p140 TEK, Tunica interna endothelial cell kinase, CD202b, VMCM, VMCM1, TIE2.

Source:CHO Cells.

Physical Appearance: Sterile Filtered White lyophilized (freeze-dried) powder.

Purity: Greater than 90.0% as determined by SDS-PAGE.

Formulation:
TIE-2 Fc Chimera was lyophilized from a concentrated (1 mg/ml) sterile solution containing 1x PBS.

Stability:
Lyophilized sTIE-2 althoμgh stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution TIE-2 should be stored at 4°C between 2-7 days and for future use below -18°C.For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).Please prevent freeze-thaw cycles.

Usage:
NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drμgs, agricultural or pesticidal products, food additives or household chemicals.

Solubility:
It is recommended to reconstitute the lyophilized TIE-2 Fc Chimera in sterile water not less than 100

Introduction:
TIE-1 (tyrosine kinase with Ig and EGF homology domains 1) and TIE-2/Tek comprise a receptor tyrosine kinase (RTK) subfamily with unique structural characteristics: two immunoglobulin-like domains flanking three epidermal growth factor (EGF)-like domains and followed by three fibronectin type III-like repeats in the extracellular region and a split tyrosine kinase domain in the cytoplasmic region. These receptors are expressed primarily on endothelial and hematopoietic progenitor cells and play critical roles in angiogenesis, vasculogenesis and hematopoiesis. Human TIE-1 cDNA encodes a 1122 amino acid (aa) residue precursor protein with an 18 residue putative signal peptide, a 726 residue extracellular domain and a 353 residue cytoplasmic domain. Two ligands, angiopoietin-1 (Ang1) and angiopoietin-2 (Ang2), which bind TIE-2 with high-affinity have been identified. Ang2 has been reported to act as an antagonist for Ang1. Mice engineered to overexpress Ang2 or to lack Ang1 or Tie-1 display similar angiogenic defects.

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