

Recombinant Mouse Endothelial-specific Receptor Tyrosine Kinase

Cat. No. Tek-1779M **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Species	Mouse
Source	Mammalian Cells
Description	Tyrosine kinase with immunoglobulin-like and EGF-like domains 2 (Tie-2) are novel endothelial cell tyrosine kinase receptors that are essential for vascular development and remodeling in the embryo. They are expressed almost exclusively in endothelial cells. Tie-2 is functional in pericytes and may play an important role in the progression of diabetic retinopathy, by regulating pericyte loss and influencing the activation state and recruitment of pericytes. Tie has been shown to be up-regulated in psoriasis and in breast cancer tissue and blocking Tie2 action inhibits tumor angiogenesis and tumor growth.
Molecular Weight	The predicted molecular weight of Recombinant Mouse Tie-2 is Mr 107.2 kDa. However, the actual molecular weight as observed by migration on SDS Page is Mr 125-135 kDa.
State Of Matter	Lyophilized
Purity	>90% by SDS Page and analyzed by silver stain.
Endotoxin	<0.1 ng per 1 g as determined by the LAL method.

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Storage And Stability

This lyophilized protein is stable for six to twelve months when stored desiccated at -20°C to -70°C. After aseptic reconstitution, this protein may be stored at 2°C to 8°C for one month or at -20°C to -70°C in a manual defrost freezer. Avoid Repeated Freeze Thaw Cycles.

GENE INFORMATION

Gene Name	Tek endothelial-specific receptor tyrosine kinase [<i>Mus musculus</i>]
Synonyms	Tek; endothelial-specific receptor tyrosine kinase; Hyk; Tie2; tie-2; Cd202b; AA517024
Gene ID	21687
mRNA Refseq	NM_013690
Protein Refseq	NP_038718
UniProt ID	Q02858
Chromosome Location	4 43.6 cM
Function	ATP binding; kinase activity; nucleotide binding; protein kinase activity; protein tyrosine kinase activity; receptor activity; transferase activity; transmembrane receptor protein tyrosine kinase activity

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