Recombinant Mouse Mertk Protein, hFc tagged, Biotinylated

Cat. No. Mertk-04M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Biotinylated Recombinant Mouse MerTK (C-hFc) is produced by Human Cells. The target gene encoding Glu23 - Phe498 is expressed with a C-hFc tag.
Species	Mouse
Source	Human Cells
ProteinLength	Glu23 - Phe498
Description	Tyrosine-protein kinase Mer(MERTK) is a member of the TYRO3/AXL/MER (TAM) receptor kinase family and encodes a transmembrane protein with two fibronectin type-III domains, two Ig-like C2-type (immunoglobulin-like) domains, and one tyrosine kinase domain. Following activation by ligand, interacts with GRB2 or PLCG2 and induces phosphorylation of MAPK1, MAPK2, FAK/PTK2 or RAC1. MERTK signaling plays a role in various processes such as macrophage clearance of apoptotic cells, platelet aggregation, cytoskeleton reorganization and engulfment. Functions in the retinal pigment epithelium (RPE) as a regulator of rod outer segments fragments phagocytosis. Plays also an important role in inhibition of Toll-like receptors (TLRs)-mediated innate immune response by activating STAT1, which selectively induces production of suppressors of cytokine signaling SOCS1 and SOCS3.
Endotoxin	Less than 0.1 ng/μg (1 EU/μg)
Storage Buffer	Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4

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Shipping	Ambient
Conjugation	Biotin

GENE INFORMATION

Gene Name	Mertk c-mer proto-oncogene tyrosine kinase [Mus musculus (house mouse)]
Official Symbol	Mertk
Synonyms	MERTK; Mer
Gene ID	17289
mRNA Refseq	NM_008587
Protein Refseq	NP_032613
UniProt ID	Q12866

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