

## Product datasheet for **TP724778**

### Cynomolgus Recombinant Protein

#### Product data:

**Product Type:** Recombinant Proteins

**Description:** Recombinant Cynomolgus MerTK ECD (C-His)

**Species:** Cynomolgus

**Expression cDNA Clone or AA Sequence:** Arg22-Pro503

**Tag:** C-His

**Buffer:** Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.

**Note:** Recombinant Cynomolgus MerTK ECD (C-His) is produced by Human Cells. The target gene encoding Arg22-Pro503 is expressed with a C-His tag.

**Stability:** 12 months from date of despatch

**Summary:** 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.



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