

# Met Kinase (Human) Assay/Inhibitor Screening Assay Kit

Cat. No. Kit-0550 Lot. No. (See product label)

## SPECIFICATION

<b>Product Overview</b>	<p>Met Kinase (Human) Assay/Inhibitor Screening Assay Kit is a single-site, non-quantitative immunoassay for kinase activity of recombinant catalytic domain of Met. Plates are pre-coated with a newly designed "Tyrosine kinase-substrate-1", which can be easily phosphorylated by recombinant catalytic domain of Met. The detector antibody is PY-39, an antibody that specifically detects the phosphotyrosine residue on "Tyrosine kinase-substrate-1".</p>
<b>Description</b>	<p>The MET protooncogene was discovered because of the ability of oncogenic Met to mediate chemically induced transformation of a human osteogenic sarcoma cell line. This receptor tyrosine kinase is synthesized as a single-chain precursor, which undergoes intracellular proteolytic cleavage at a basic amino acid site, yielding a disulfide-linked heterodimer. Its C-terminal, intracellular region contains a multifunctional docking site that binds to various signaling molecules. The ligand of the Met receptor is HGF/scatter factor, known to stimulate invasive growth of epithelial cells. It is a multifunctional factor affecting a number of cell targets including epithelium, endothelium, myoblasts, spinal motor neurons, and hematopoietic cells. Signaling pathways activated by the HGF-Met interaction mediate cell adhesion and motility. These cellular phenotypes, coupled to tightly regulated changes in cell growth, morphology, and survival, define a general pattern of invasive growth that occurs widely in normal development.</p>
<b>Applications</b>	<p>1) Screening inhibitors or activators of recombinant catalytic domain of Met. 2) Detecting the effects of pharmacological agents on recombinant catalytic domain of Met.</p>

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<b>Target Species</b>	Human
<b>Usage</b>	For research use only (RUO)
<b>Storage</b>	Upon receipt store all other components at 4°C. Do not expose reagents to excessive light.
<b>Kit Components</b>	<p>Microplate: One microplate supplied ready to use, with 96 wells (12 strips of 8-wells) in a foil, zip-lock bag with a desiccant pack. Wells are coated with recombinant "Tyrosine kinase-substrate-1".</p> <p>10X Wash Buffer: One 100 mL bottle of 10X buffer containing 2% Tween -20.</p> <p>Kinase Buffer: One 20 mL bottle of 1X buffer used for Kinase Reaction Buffer and sample dilution.</p> <p>20X ATP: Lyophilized ATP Na<sub>2</sub> salt. Reconstitute contents of vial with 1.6 mL of ddH<sub>2</sub>O.</p> <p>HRP conjugated Detection Antibody: One bottle containing 12 mL of HRP (horseradish peroxidase) conjugated anti-phosphotyrosine monoclonal antibody (PY-39).</p> <p>Substrate Reagent: One bottle containing 12 mL of the chromogenic substrate, tetra-methylbenzidine (TMB). Ready to use.</p> <p>Stop Solution: One bottle supplied ready to use, containing 12 mL of 1.25 N H<sub>2</sub>SO<sub>4</sub>. Ready to use.</p>

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