

ARG70307 Human Met recombinant protein (ECD) (His-tagged, C-ter)

Package: 100 μg Store at: -20°C

Summary

| Product Description | HEK293 expressed, His-tagged (C-ter) Human Met recombinant protein (ECD). |
|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Tested Reactivity | Hu |
| Tested Application | Binding, SDS-PAGE |
| Target Name | Met (ECD) |
| Species | Human |
| A.A. Sequence | Glu25 - Thr932 of Human Met (NP_000236.2) with 6X His tag at the C-terminus. |
| Expression System | HEK293 |
| Alternate Names | Scatter factor receptor; c-Met; HGF receptor; HGFR; EC 2.7.10.1; SF receptor; AUTS9; Proto-oncogene c- Met; Tyrosine-protein kinase Met; HGF/SF receptor; Hepatocyte growth factor receptor; RCCP2; DFNB97 |

Application Instructions

| Application Note | Binding activity test: Measured by its binding ability in a functional ELISA. Immobilized recombinant |
|------------------|--------------------------------------------------------------------------------------------------------|
| | human HGFR at 2 ug/ml (100 μ l/well) can bind Rrecombinant human HGF with a linear range of 25-250 |
| | ng/ml. |

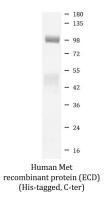
Properties

| Form | Powder |
|---------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Purification Note | 0.22 μm filter sterilized. Endotoxin level is 95% (by SDS-PAGE) |
| Buffer | PBS (pH 7.4) |
| Reconstitution | Reconstitute to a concentration of 0.1 - 0.5 mg/ml in sterile distilled water. |
| Storage instruction | For long term, lyophilized protein should be stored at -20°C or -80°C. After reconstitution, aliquot and store at -20°C for up to one month, at 2-8°C for up to one week. Storage in frost free freezers is not recommended. Avoid repeated freeze/thaw cycles. Suggest spin the vial prior to opening. |
| Note | For laboratory research only, not for drug, diagnostic or other use. |

Bioinformation

| Gene Symbol | MET |
|----------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Gene Full Name | MET proto-oncogene, receptor tyrosine kinase |
| Background | This gene encodes a member of the receptor tyrosine kinase family of proteins and the product of the proto-oncogene MET. The encoded preproprotein is proteolytically processed to generate alpha and beta subunits that are linked via disulfide bonds to form the mature receptor. Further processing of the beta subunit results in the formation of the M10 peptide, which has been shown to reduce lung fibrosis. Binding of its ligand, hepatocyte growth factor, induces dimerization and activation of the receptor, which plays a role in cellular survival, embryogenesis, and cellular migration and invasion. |

| | Mutations in this gene are associated with papillary renal cell carcinoma, hepatocellular carcinoma, and various head and neck cancers. Amplification and overexpression of this gene are also associated with multiple human cancers. [provided by RefSeq, May 2016] |
|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Function | Receptor tyrosine kinase that transduces signals from the extracellular matrix into the cytoplasm by binding to hepatocyte growth factor/HGF ligand. Regulates many physiological processes including proliferation, scattering, morphogenesis and survival. Ligand binding at the cell surface induces autophosphorylation of MET on its intracellular domain that provides docking sites for downstream signaling molecules. Following activation by ligand, interacts with the PI3-kinase subunit PIK3R1, PLCG1, SRC, GRB2, STAT3 or the adapter GAB1. Recruitment of these downstream effectors by MET leads to the activation of several signaling cascades including the RAS-ERK, PI3 kinase-AKT, or PLCgamma-PKC. The RAS-ERK activation is associated with the morphogenetic effects while PI3K/AKT coordinates prosurvival effects. During embryonic development, MET signaling plays a role in gastrulation, development and migration of muscles and neuronal precursors, angiogenesis and kidney formation. In adults, participates in wound healing as well as organ regeneration and tissue remodeling. Promotes also differentiation and proliferation of hematopoietic cells. May regulate cortical bone osteogenesis (By similarity). |
| | the pathogen into cells. [UniProt] |
| Calculated Mw | 156 kDa |
| РТМ | Autophosphorylated in response to ligand binding on Tyr-1234 and Tyr-1235 in the kinase domain leading to further phosphorylation of Tyr-1349 and Tyr-1356 in the C-terminal multifunctional docking site. Dephosphorylated by PTPRJ at Tyr-1349 and Tyr-1365. Dephosphorylated by PTPN1 and PTPN2. |
| | Ubiquitinated. Ubiquitination by CBL regulates MET endocytosis, resulting in decreasing plasma membrane receptor abundance, and in endosomal degradation and/or recycling of internalized receptors. [UniProt] |
| Cellular Localization | Membrane; Single-pass type I membrane protein. Isoform 3: Secreted. [UniProt] |
| Images | |



ARG70307 Human Met recombinant protein (ECD) (His-tagged, C-ter) SDS-PAGE image

SDS-PAGE analysis of ARG70307 Human Met recombinant protein (ECD) (His-tagged, C-ter).