

Recombinant Human MET, Fc-His

Cat. No. MET-1624H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human HGFR was expressed in <i>NSO cells</i> . The extracellular domain of c-Met was fused to the carboxy terminal 6X his-tagged Fc region of human IgG1 via a polypeptide linker.
Species	Human
Source	Mammalian Cells
Description	Hepatocyte growth factor receptor (HGFR), also known as c-Met, plays an important roles in angiogenesis and tumor growth. C-Met is a receptor tyrosine kinase expressed by epithelial cells of the brain, kidney, liver and other tissues. Binding of its ligand, Hepatocyte Growth Factor (HGF), triggers receptor autophosphorylation, and activation of several downstream effectors including the mitogen-activated protein kinases ERK-1 and ERK-2, and PLC-γ. Activation of the c-Met signal transduction pathway leads to multiple cellular responses including cell motility, scattering, proliferation, survival and angiogenesis.
State Of Matter	Lyophilized.
Purity	>95% by SDS Page and analyzed by silver stain.
Endotoxin	<1.0 EU/g as determined by the LAL method.
Molecular Weight	The predicted molecular weight of Recombinant Human HGF R is Mr 129 kDa.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Formulation	This recombinant protein was 0.2 µm filtered and lyophilized from modified Dulbecco's phosphate buffered saline (1X PBS) pH 7.2 – 7.3 with no calcium, magnesium, or preservatives.
Biological Activity	The biological activity of Human HGF R was determined by its ability to bind human HGF. Immobilized rhHGF R/Fc at 1 µg/mL (100 µL/well) can bind rhHGF (0.1 - 5 ng/mL) in an ELISA type assay.
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	MET met proto-oncogene (hepatocyte growth factor receptor) [Homo sapiens]
Synonyms	AUTS9; HGFR; RCCP2; c-Met; HGF receptor; OTTHUMP00000069168; SF receptor; met proto-oncogene; met proto-oncogene tyrosine kinase; oncogene MET; scatter factor receptor; EC 2.7.10.1; HGF/SF receptor; met proto-oncogene (hepatocyte growth factor receptor); met proto-oncogene
Gene ID	4233
mRNA Refseq	NM_000245.2
Protein Refseq	NP_000236.2
MIM	164860
UniProt ID	P00533

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Chromosome Location	7q31
Pathway	Adherens junction; Axon guidance; Colorectal cancer; Cytokine-cytokine receptor interaction; Epithelial cell signaling in Helicobacter pylori infection; Focal adhesion; Melanoma; Renal cell carcinoma
Function	Cell proliferation; cell surface receptor linked signal transduction; multicellular organismal development; protein amino acid phosphorylation
Crystallographic structure of MET. PDB rendering based on 1r0p.	