

Mouse c-MET / HGFR Protein (ECD, His Tag)



Sino Biological
Biological Solution Specialist

Catalog Number: 50622-M08H

General Information

Gene Name Synonym:

AI838057; c-Met; HGF; HGFR; Par4

Protein Construction:

A DNA sequence encoding the mouse MET (EDL13881.1) extracellular domain (Met 1-Asn 929) was fused with a polyhistidine tag at the C-terminus.

Source: Mouse

Expression Host: HEK293 Cells

QC Testing

Purity: ≥ 90 % as determined by SDS-PAGE. ≥ 90 % as determined by SEC-HPLC.

Bio Activity:

Immobilized HGF Protein, Mouse, Recombinant (Cat:50038-MNAH) at 2 µg/mL (100 µL/well) can bind c-MET Protein, Mouse, Recombinant (ECD, His Tag) (Cat:50622-M08H), the EC₅₀ is 80-400 ng/mL.

Endotoxin:

< 1.0 EU per µg of the protein as determined by the LAL method

Predicted N terminal: Glu 25 & Ser 307

Molecular Mass:

The recombinant mouse Met is a heterodimer composed of the proteolytically cleaved α and β subunits. The α and β heterodimer consists of 916 amino acids and has a predicted molecular mass of 102 (α = 32 + β = 70) kDa. The apparent molecular mass of the rmMET heterodimer thus is approximately 41.8 kDa and 87.2 kDa respectively in SDS-PAGE under reducing conditions due to glycosylation.

Formulation:

Lyophilized from sterile PBS, pH 7.4

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

Usage Guide

Stability & Storage:

Samples are stable for twelve months from date of receipt at -20°C to -80°C.

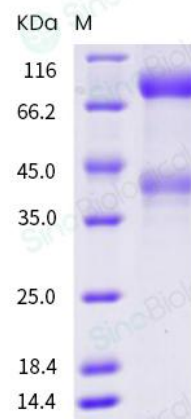
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

Reconstitution:

Detailed reconstitution instructions are sent along with the products.

SDS-PAGE:



Protein Description

Hepatocyte growth factor receptor (HGFR), also known as c-Met or mesenchymal-epithelial transition factor (MET), is a receptor tyrosine kinase (RTK) that is overexpressed and/or mutated in a variety of malignancies. HGFR protein is produced as a single-chain precursor, and HGF is the only known ligand. Normal HGF/HGFR signaling is essential for embryonic development, tissue repair, or wound healing, whereas aberrantly active HGFR has been strongly implicated in tumorigenesis, particularly in the development of invasive and metastatic phenotypes. HGFR protein is a multifaceted regulator of growth, motility, and invasion, and is normally expressed by cells of epithelial origin. Preclinical studies suggest that targeting aberrant HGFR signaling could be an attractive therapy in cancer.

References

1. McGill GG, *et al.* (2006) c-Met expression is regulated by Mitf in the melanocyte lineage. *J Biol Chem.* 281(15): 10365-73.
2. Garcia S, *et al.* (2007) c-Met overexpression in inflammatory breast carcinomas: automated quantification on tissue microarrays. *British journal of cancer.* 96(2): 329-35.
3. Socoteanu MP, *et al.* (2008) c-Met targeted therapy of cholangiocarcinoma. *World J Gastroenterol.* 14(19): 2990-4.

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Tel: +86-400-890-9989 (Global), +1-215-583-7898 (USA), +49(0)6196 9678656 (Europe)

Website: <http://www.sinobiological.com>