

Human c-Met / HGFR Protein (His & AVI Tag), Biotinylated

Catalog Number: 10692-H27H-B



Sino Biological
Biological Solution Specialist

General Information

Gene Name Synonym:

AUTS9; c-Met; DFN97; HGFR; RCCP2

Protein Construction:

A DNA sequence encoding the human MET (NP_000236.2) (Met1-Thr932) was expressed with a c-terminal polyhistidine tagged AVI tag at the C-terminus. The expressed protein was biotinylated in vivo by the Biotin-Protein ligase (BirA enzyme) which is co-expressed.

Source: Human

Expression Host: Human Cells

QC Testing

Biotin/Protein Ratio:

0.5-1 as determined by the HABA assay.

Purity: > 95 % as determined by SDS-PAGE.

Endotoxin:

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

Stability:

Samples are stable for up to twelve months from date of receipt at -70 °C

Predicted N terminal: Glu 25

Molecular Mass:

The recombinant human MET consists of 934 amino acids and predicts a molecular mass of 104.9 kDa.

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

Storage:

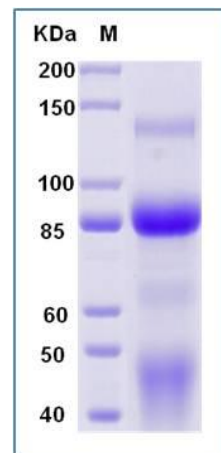
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

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 has been shown to be 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>