



Datasheet for ABIN3137684

## c-MET Protein (AA 25-932) (His tag,AVI tag,Biotin)



[Go to Product page](#)

2 Images

1 Publication

### Overview

Quantity:	200 µg
Target:	c-MET (MET)
Protein Characteristics:	AA 25-932
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This c-MET protein is labelled with His tag,AVI tag,Biotin.

### Product Details

Brand:	MABSol@,PrecisionAvi
Sequence:	AA 25-932
Specificity:	Biotinylation of this product is performed using Avitag™ technology. Briefly, the single lysine residue in the Avitag is enzymatically labeled with biotin.
Characteristics:	This protein carries an Avi tag (Avitag™) at the C-terminus, followed by a polyhistidine tag. The protein has a calculated MW of 104.3 kDa. The protein migrates as 40-45 kDa α subunit and 75 kDa β subunit under reducing (R) condition (SDS-PAGE) due to glycosylation.
Purity:	>90 % as determined by SDS-PAGE.
Endotoxin Level:	Less than 1.0 EU per µg by the LAL method.

## Target Details

---

Target:	c-MET (MET)
Alternative Name:	HGFR ( <a href="#">MET Products</a> )
Background:	<p>Hepatocyte growth factor receptor (HGFR) is also known as mesenchymal-epithelial transition factor (MET), c-Met, and is a glycosylated receptor tyrosine kinase that plays a central role in epithelial morphogenesis and cancer development. HGFR protein possesses tyrosine-kinase activity. The primary single chain precursor protein is post-translationally cleaved to produce the alpha and beta subunits, which are disulfide linked to form the mature receptor. HGFR is normally expressed by cells of epithelial origin, while expression of HGF is restricted to cells of mesenchymal origin. Upon HGF stimulation, HGFR induces several biological responses that collectively give rise to a program known as invasive growth. Abnormal HGFR activation in cancer correlates with poor prognosis, where aberrantly active HGFR triggers tumor growth, formation of new blood vessels (angiogenesis) that supply the tumor with nutrients, and cancer spread to other organs (metastasis). HGFR is deregulated in many types of human malignancies, including cancers of kidney, liver, stomach, breast, and brain. Normally, only stem cells and progenitor cells express HGFR, However, cancer stem cells are thought to hijack the ability of normal stem cells to express HGFR, and thus become the cause of cancer persistence and spread to other sites in the body. Various mutations in the HGFR gene are associated with papillary renal carcinoma. HGFR mediates a complex program known as invasive growth. Activation of HGFR triggers mitogenesis, and morphogenesis.</p>
Molecular Weight:	104.3 kDa
Pathways:	<a href="#">RTK Signaling</a> , <a href="#">Carbohydrate Homeostasis</a> , <a href="#">Synaptic Membrane</a> , <a href="#">Signaling of Hepatocyte Growth Factor Receptor</a>

## Application Details

---

Comment:	<p>Ready-to-use Avitag™ biotinylated protein:</p> <p>The product is exclusively produced using the Avitag™ technology. Briefly, a unique 15 amino acid peptide, the Avi tag, is introduced into the recombinant protein during expression vector construction. The single lysine residue in the Avi tag is enzymatically biotinylated by the E. Coli biotin ligase BirA.</p> <p>This single-point enzymatic labeling technique brings many advantages for commonly used binding assays. The biotinylation happens on the lysine residue of Avi tag, and therefore does NOT interfere with the target protein's natural binding activities. In addition, when immobilized on an avidin-coated surface, the protein orientation is uniform because the position of the Avi</p>
----------	--

## Application Details

tag in the protein is precisely controlled.

Restrictions: For Research Use only

## Handling

Format: Lyophilized

Buffer: PBS, pH 7.4

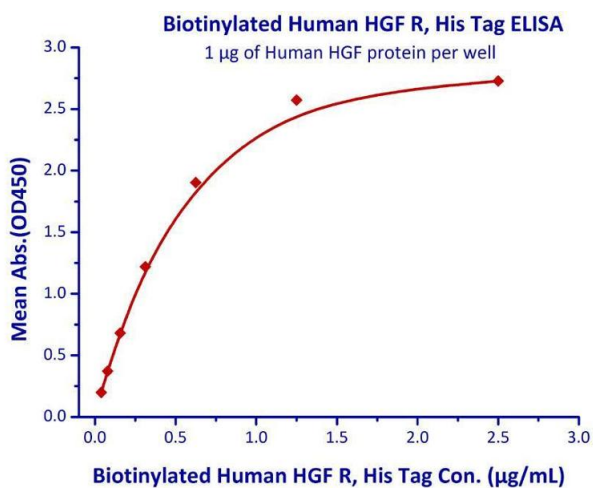
Handling Advice: Please avoid repeated freeze-thaw cycles.

Storage: -20 °C

## Publications

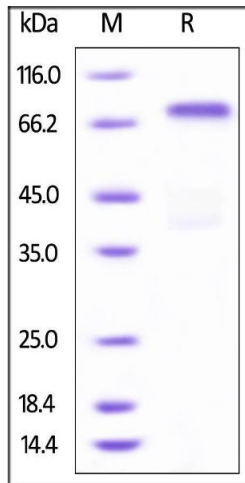
Product cited in: Gong, Ren, Wu, Wu, Wu: "Fabs-in-tandem immunoglobulin is a novel and versatile bispecific design for engaging multiple therapeutic targets." in: **mAbs**, Vol. 9, Issue 7, pp. 1118-1128, (2018) ([PubMed](#)).

## Images



### Binding Studies

**Image 1.** Immobilized Human HGF protein with a linear range of 0.04-0.31 µg/mL.



### SDS-PAGE

**Image 2.** Biotinylated Human HGF R, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 90%.