

Synonym

MET,AUTS9,HGFR,RCCP2,c-Met

Source

FITC-Labeled Human HGF R, His Tag(HGR-HF224) is expressed from human 293 cells (HEK293). It contains AA 25 Glu - 932 Thr (Accession # [P08581-1](#)).
Predicted N-terminus: 25 Glu

Molecular Characterization

HGF R(25 Glu - 932 Thr)
P08581-1

Poly-his

This protein carries a polyhistidine tag at the C-terminus.

The protein has a calculated MW of 102.7 kDa. The protein migrates as 30-40 kDa, 90-100 kDa and 150 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

Conjugate

FITC
Excitation source: 488 nm spectral line, argon-ion laser
Excitation Wavelength: 488 nm
Emission Wavelength: 535 nm

Labeling

The primary amines in the side chains of lysine residues and the N-terminus of the protein are conjugated with FITC using standard chemical labeling method. The residual FITC is removed by molecular sieve treatment during purification process.

Protein Ratio

The FITC to protein molar ratio is 2-4.

Purity

>90% as determined by SDS-PAGE.

Formulation

Lyophilized from 0.22 µm filtered solution in PBS, pH7.4 with trehalose as protectant.

Contact us for customized product form or formulation.

Reconstitution

Please see Certificate of Analysis for specific instructions.

For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.

Storage

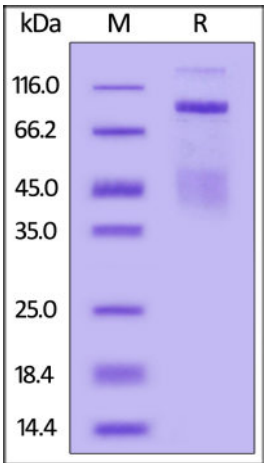
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please protect from light and avoid repeated freeze-thaw cycles.

This product is stable after storage at:

- 20°C to -70°C for 12 months in lyophilized state;
- 70°C for 3 months under sterile conditions after reconstitution.

SDS-PAGE



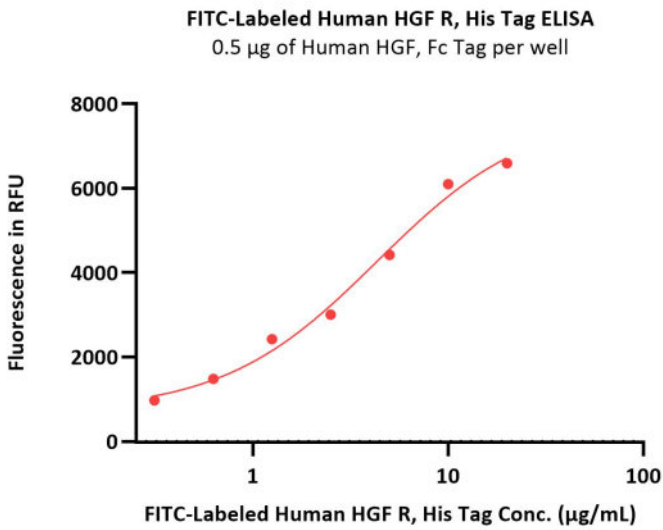
FITC-Labeled Human HGF R, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein

Discounts, Gifts,
and more!

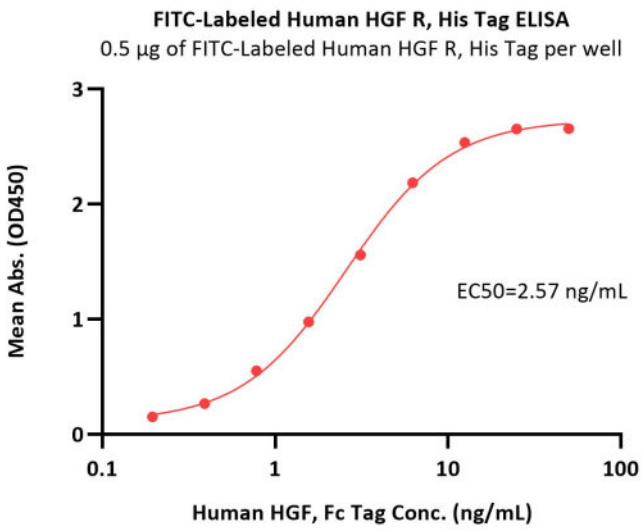


is greater than 90%.

Bioactivity-ELISA



Immobilized Human HGF, Fc Tag (Cat. No. HGF-H5253) at 5 µg/mL (100 µL/well) can bind FITC-Labeled Human HGF R, His Tag (Cat. No. HGR-HF224) with a linear range of 0.625-10 µg/mL (QC tested).



Immobilized FITC-Labeled Human HGF R, His Tag (Cat. No. HGR-HF224) at 5 µg/mL (100 µL/well) can bind Human HGF, Fc Tag (Cat. No. HGF-H5253) with a linear range of 0.2-6 ng/mL (Routinely tested).

Background

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.

