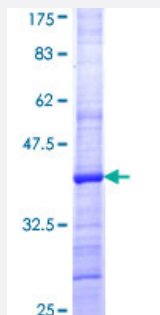


HGF (Human) Recombinant Protein (Q02)

Catalog # H00003082-Q02

Size 25 ug, 10 ug

Applications



Specification

Product Description	Human HGF partial ORF (NP_000592, 619 a.a. - 728 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	YTGLINYDGLLRVAHLYIMGNEKCSQHHRGKVTLNESEICAGAEKIGSGPCEGDYGGPLVCEQHKM RMVLGVVPGRGCAIPNRPGIFVRVAYYAKWIIKILTYKVPQS
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	37.84
Interspecies Antigen Sequence	Mouse (94); Rat (94)
Preparation Method	in vitro wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — HGF

Entrez GeneID [3082](#)

GeneBank Accession# [NM_000601](#)

Protein Accession# [NP_000592](#)

Gene Name HGF

Gene Alias F-TCF, HGFB, HPTA, SF

Gene Description hepatocyte growth factor (hepatopoietin A; scatter factor)

Omim ID [142409](#)

Gene Ontology [Hyperlink](#)

Gene Summary Hepatocyte growth factor regulates cell growth, cell motility, and morphogenesis by activating a tyrosine kinase signaling cascade after binding to the proto-oncogenic c-Met receptor. Hepatocyte growth factor is secreted by mesenchymal cells and acts as a multi-functional cytokine on cells of mainly epithelial origin. Its ability to stimulate mitogenesis, cell motility, and matrix invasion gives it a central role in angiogenesis, tumorigenesis, and tissue regeneration. It is secreted as a single inactive polypeptide and is cleaved by serine proteases into a 69-kDa alpha-chain and 34-kDa beta-chain. A disulfide bond between the alpha and beta chains produces the active, heterodimeric molecule. The protein belongs to the plasminogen subfamily of S1 peptidases but has no detectable protease activity. Alternative splicing of this gene produces multiple transcript variants encoding different isoforms. [provided by RefSeq]

Other Designations fibroblast-derived tumor cytotoxic factor|hepatocyte growth factor|hepatopoietin A|lung fibroblast-derived mitogen|scatter factor

Pathway

- [Cytokine-cytokine receptor interaction](#)
- [Focal adhesion](#)
- [Melanoma](#)
- [Pathways in cancer](#)
- [Renal cell carcinoma](#)

Disease

- [Amyotrophic lateral sclerosis](#)
- [Anoxia](#)
- [Atherosclerosis](#)
- [Autistic Disorder](#)
- [Birth Weight](#)
- [Breast cancer](#)
- [Cardiovascular Diseases](#)
- [Carotid Artery Diseases](#)
- [Diabetes Mellitus](#)
- [Disease Progression](#)
- [Edema](#)
- [Genetic Predisposition to Disease](#)
- [Glioblastoma](#)
- [Glioma](#)
- [Hepatitis](#)
- [Hyperparathyroidism](#)
- [Hypertension](#)
- [Kidney Failure](#)
- [Leukemia](#)

- [Meningeal Neoplasms](#)
- [Meningioma](#)
- [Myopia](#)
- [Obesity](#)
- [Vitiligo](#)