

Recombinant Human HGF

Cat No:HR2R1494

For research use only

Overview

Quantity	10 ?g
Gene Symbol	HGF
Gene ID	3082
Accession	P14210
Alternative Name	HGF, Hepatopoietin-A, HPTA, Scatter factor, SFRecombinant Human Hepatocyte Growth Factor (HGF)
Species	Human
Source	HEK293
Description	Hepatocyte growth factor (HGF) is a multifunctional cytokine that was originally described as a mesenchymal-derived factor that regulates cell growth, cell motility, morphogenesis and angiogenesis through activation of its receptor, the transmembrane tyrosine kinase encoded by the c-Met proto-oncogene. HGF and c-Met are often co-expressed or over-expressed in a variety of human malignancies including glioblastoma and medullablastoma. The multifunctional effects of HGF: c-Met signaling in tumor cells are mediated by a network of signal transduction pathways including mitogen-activated protein kinase (MAPK) and phosphoinositide 3-kinase (PI3K). HGF consists of two subunits held by a disulfide bond. The alpha subunit (69 kDa) has a length of 440 amino acids and the beta subunit (34 kDa) has a length of 234 amino acids. The beta chain of the factor shows approximately 38% homology at the protein level to the serine protease domain of plasminogen. Recombinant HGF expressed in human 293 cells and has a molecular mass of 70 kDa, lower compared to the Molecular mass for this cytokine expressed in CHO cells which emphasizes the difference in post translational modifications.
Functions	The EC(50) as determined by the dose-dependent stimulation of the proliferation of the monkey epithelial cell line 4MBr-5 was found to be ? 20 ng/mL.
Formulation	1x PBS
Solubility	A quick spin of the vial followed by reconstitution in sterile 1xPBS containing 0.1% endotoxin-free recombinant human serum albumin (HSA).
Appearance	Lyophilized Powder
Molecular Weight	N/A
Purity	>95% as determined by SDS-PAGE
Concentration	<1 EU/?g of recombinant protein as determined by the LAL method
Shipping Condition	Ambient Temperature

Storage Condition	The lyophilized protein is stable for at least one year from date of receipt at -70°C. Upon reconstitution, this cytokine can be stored in working aliquots at 2° - 8°C for one month, or at -20°C for six months. Avoid repeated freeze/thaw cycles.
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