

## Datasheet for ABIN2666488 **HGF Protein (AA 32-494, AA 495-728)**



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	W	0	rv	10	W

10 μg	
HGF	
AA 32-494, AA 495-728	
Human	
Insect Cells	
Recombinant	
Active	
Flow Cytometry (FACS)	
> 98 % , as determined by Coomassie stained SDS-PAGE and HPLC analysis.	
Less than 0.1 ng per μg of protein.	
HGF	
HGF HGF (HGF Products)	

Proteolytic activation of the precursor form in the extracellular milieu is performed by HGF activator (HGFA). HGFA is a factor XII-like serine proteinase that is not inhibited by serum proteinase inhibitors. Two inhibitors have been described for HGFA, HGFA inhibitor type 1 and type 2 (HAI-1 and -2). Both inhibitors have two well-defined Kunitz inhibitor domains and a presumed transmembrane domain. HGF protects the epithelium, neurons and cardiomyocytes during organ diseases, this protective effect is mediated through anti-apoptotic signals via inhibition of caspase-3 activity or induction of anti-apoptotic molecules, such as Bcl-xL. In addition, HGF prohibits Fas-mediated apoptosis signals via sequestration of Fas and Met receptor on cell surfaces. Also, HGF elicits the regression of fibrosis in numerous organs, such as scleroderma, cardiomyopathy, vocal scarring, and peritoneal fibrosis.

Molecular Weight:

The alpha and beta chains contains 463 and 234 amino acids and have a predicted molecular mass of approximately 53.6 and 26 kDa respectively. The predicted N-terminal amino acids are Gln and Val.

Pathways:

RTK Signaling, Carbohydrate Homeostasis, Glycosaminoglycan Metabolic Process, Synaptic Membrane, Signaling of Hepatocyte Growth Factor Receptor

## **Application Details**

Application Notes:	Optimal working dilution should be determined by the investigator.
Comment:	Biological activity: ED50 = $20 - 40$ ng/ml, corresponding to a specific activity of $2.5 - 5.0 \times 104$ units/mg, as determined by induction of 4MBr-5 cell proliferation.
Restrictions:	For Research Use only
Handling	

Reconstitution:

For maximum results, quick spin vial prior to opening. Reconstitute in water to a concentration of 0.5 mg/mL. Do not vortex. Note: Allow the reconstituted vial to sit at room temperature for 1 hour before use. It is recommended to further dilute in a buffer containing a carrier protein such as 0.1 % BSA and store working aliquots at -20 °C to -80 °C.

Buffer: Lyophilized

Handling Advice: Avoid repeated freeze/thaw cycles.

Storage: -20 °C

Storage Comment: Unopened vial can be stored at -20°C or -70°C.