

HGF Protein, Canine (HEK293)

Cat. No.:	HY-P74889
Synonyms:	Hepatocyte growth factor; F-TCF; Hepatopoeitin-A; HGF; HGFB; HPTA; SF
Species:	Canine
Source:	HEK293
Accession:	Q867B7/NP_001002964.1 (Q32-S730)
Gene ID:	403441
Molecular Weight:	Approximately 79.9 kDa

PROPERTIES

Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μ m filtered solution of PBS, pH 7.4. Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
Endotoxin Level	<1 EU/ μ g, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 μ g/mL in ddH ₂ O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	HGF Protein emerges as a potent mitogen with hepatotrophic properties, specifically promoting the proliferation of mature parenchymal hepatocyte cells. Beyond its hepatocyte-centric functions, HGF acts as a versatile growth factor, exerting its effects across a broad spectrum of tissues and cell types. As an activating ligand for the receptor tyrosine kinase MET, HGF binds to MET, facilitating receptor dimerization and initiating downstream signaling cascades. Furthermore, following TMPRSS13 cleavage and activation, HGF activates MAPK signaling, contributing to its diverse cellular effects. Structurally, HGF exists as a dimer composed of an alpha chain and a beta chain linked by a disulfide bond. Notably, it interacts with SRPX2, enhancing HGF's mitogenic activity. This multifaceted functionality underscores the pivotal role of HGF in cellular growth, tissue homeostasis, and signal transduction pathways.
------------	---

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA