

MSP/MST1 Protein, Mouse (C677A, HEK293)

Cat. No.:	HY-P701103
Synonyms:	Hepatocyte growth factor-like protein; MST1; Macrophage stimulatory protein; Macrophage-stimulating protein; MSP; D3F15S2; DNF15S2; HGFL; Macrophage Stimulating Protein/Macrophage Stimulating 1 [Hepatocyte Growth Factor-like] ; Macrophage Stimulating Prot
Species:	Mouse
Source:	HEK293
Accession:	NP_032269 (Q19-E716, C677A)
Gene ID:	15235
Molecular Weight:	92 & 60.5 & 32-36 kDa

PROPERTIES

AA Sequence

Q R S P L N D F Q L	F R G T E L R N L L	H T A V P G P W Q E	D V A D A E E C A R
R C G P L L D C R A	F H Y N M S S H G C	Q L L P W T Q H S L	H T Q L Y H S S L C
H L F Q K K D Y V R	T C I M D N G V S Y	R G T V A R T A G G	L P C Q A W S R R F
P N D H K Y T P T P	K N G L E E N F C R	N P D G D P R G P W	C Y T T N R S V R F
Q S C G I K T C R E	A V C V L C N G E D	Y R G E V D V T E S	G R E C Q R W D L Q
H P H S H P F Q P E	K F L D K D L K D N	Y C R N P D G S E R	P W C Y T T D P N V
E R E F C D L P S C	G P N L P P T V K G	S K S Q R R N K G K	A L N C F R G K G E
D Y R G T T N T T S	A G V P C Q R W D A	Q S P H Q H R F V P	E K Y A C K D L R E
N F C R N P D G S E	A P W C F T S R P G	L R M A F C H Q I P	R C T E E L V P E G
C Y H G S G E Q Y R	G S V S K T R K G V	Q C Q H W S S E T P	H K P Q F T P T S A
P Q A G L E A N F C	R N P D G D S H G P	W C Y T L D P D I L	F D Y C A L Q R C D
D D Q P P S I L D P	P D Q V V F E K C G	K R V D K S N K L R	V V G G H P G N S P
W T V S L R N R Q G	Q H F C G G S L V K	E Q W V L T A R Q C	I W S C H E P L T G
Y E V W L G T I N Q	N P Q P G E A N L Q	R V P V A K A V C G	P A G S Q L V L L K
L E R P V I L N H H	V A L I C L P P E Q	Y V V P P G T K C E	I A G W G E S I G T
S N N T V L H V A S	M N V I S N Q E C N	T K Y R G H I Q E S	E I C T Q G L V V P
V G A C E G D Y G G	P L A C Y T H D A W	V L Q G L I I P N R	V C A R P R W P A I
F T R V S V F V D W	I N K V M Q L E		

Biological Activity Measured by its ability to inhibit the proliferation of Hela cell. The ED₅₀ for this effect is 4.080 ng/ml, corresponding to a specific activity is 2.45×10⁵ units/mg.

Appearance Lyophilized powder.

Formulation Lyophilized from a 0.2 μm filtered solution of 20 mM PB, 150 mM NaCl, pH 7.4.

Endotoxin Level <1 EU/μg, determined by LAL method.

Reconstitution It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH₂O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).

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

This gene, encoding the MSP/MST1 protein, is predicted to possess receptor tyrosine kinase binding activity. It plays a role upstream in various processes, including embryo implantation, mammary duct terminal end bud growth, and positive regulation of mammary gland epithelial cell proliferation. The protein is primarily located in the vacuole and is expressed in tissues such as esophagus epithelium, liver, liver parenchyma, pharynx epithelium, and stomach proventricular region epithelium. Notably, the gene exhibits biased expression in the liver of both adult and embryonic stages in the reference dataset.

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

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