MSTN Protein, Cat (HEK293, His)

Cat. No.:	HY-P700498
Synonyms:	myostatin; GDF8; MSLHP; growth/differentiation factor 8; GDF-8; growth differentiation factor 8
Species:	Cat
Source:	HEK293
Accession:	M3WPT7 (G19-S375)
Gene ID:	101081322
Molecular Weight:	44.2 kDa

PROPERTIES

AA Sequence	G P V D L N E N S E Q K E N V E K E G L C N A C T W R Q N T K S S R I E A I K I Q I L S K L R L E T A P N I S K D A I R Q L L P K A P P L R E L I D Q Y D V Q R D D S S D G S L E D D D Y H A T T E T I I T M P T E S D L L M Q V E G K P K C C F F K F S S K I Q Y N K V V K A Q L W I Y L R P V K T P T T V F V Q I L R L I K P M K D G T R Y T G I R S L K L D M N P G T G I W Q S I D V K T V L Q N W L K Q P E S N L G I E I K A L D E N G H D L A V T F P G P G E D G L N P F L E V K V T D T P K R S R R D F G L D C D E H S T E S R C C R Y P L T V D F E A F G W D W I I A P K R Y K A N Y C S G E C E F V F L Q K Y P H T H L V H Q A N P R G S A G P C C T P T K M S P I N M L Y F N G K E Q I I Y G K I P A M V V D R C G C S
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μm filtered solution of Tris/PBS-based buffer, 6% Trehalose, pH 8.0.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O.
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	MSTN (Myostatin) functions as a dedicated negative regulator of skeletal muscle growth, forming homodimers through disulfide linkages. It interacts with WFIKKN2, effectively inhibiting the activity of WFIKKN2. Additionally, MSTN engages with FSTL3, further contributing to its role in negatively modulating skeletal muscle growth.

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

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