

## Myostatin Human Recombinant, Plant

<b>Item Number</b>	rAP-2375
<b>Synonyms</b>	GDF-8, MSTN, Growth Differentiation Factor 8, MSTN Muscle Hypertrophy.
<b>Description</b>	Myostatin Human Recombinant produced in Nicotiana benthamiana plant is a single chain containing 115 amino acids (molecular formula C <sub>586</sub> H <sub>865</sub> N <sub>165</sub> O <sub>164</sub> S <sub>12</sub> ) and 6-His-tag at the N-terminal having the total molecular mass of 13.2kDa.
<b>Uniprot Accession Number</b>	O14793
<b>Amino Acid Sequence</b>	HHHHHDFGL DCDEHSTESR CCRYPLTVDF EAFGWDWIIA PKRYKANYCS GECEVFLQKY-PHTHLVHQA NPRGSAGPCC TPTKMSPINM LYFNGKEQII YGKIPAMVVD RCGCS
<b>Source</b>	Nicotiana benthamiana plant
<b>Physical Appearance and Stability</b>	Sterile Filtered White lyophilized (freeze-dried) powder. Lyophilized Myostatin although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution Myostatin should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.
<b>Formulation and Purity</b>	Lyophilized from 1mg/ml solution in glycine 0.05M buffer at pH 8.5 and 100mM NaCl. Greater than 97.0% as determined by Analysis by SDS-PAGE.
<b>Application</b>	
<b>Solubility</b>	It is recommended to reconstitute the lyophilized Myostatin in sterile 18M <sup>2</sup> -cm H <sub>2</sub> O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.
<b>Biological Activity</b>	
<b>Shipping Format and Condition</b>	Lyophilized powder at room temperature.

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the ender users! This product is sold for **Research Use Only**