

### 32-7638: Recombinant Mouse Myostatin/MSTN/GDF-8 (C-6His)(Discontinued)

**Gene :** Mstn  
**Gene ID :** 17700  
**Uniprot ID :** O08689

#### Description

Source: Human Cells.  
MW :28.4kD.

Recombinant Mouse Growth Differentiation Factor 8 is produced by our Mammalian expression system and the target gene encoding Asn25-Ser265 is expressed with a 6His tag at the C-terminus. Mouse Growth/differentiation factor 8(Mstn, GDF-8) is a member of the bone morphogenetic protein (BMP) family and the TGF-beta superfamily. This group of proteins is characterized by a polybasic proteolytic processing site which is cleaved to produce a mature protein containing seven conserved cysteine residues. It is expressed specifically in developing and adult skeletal muscle. It exists as a homodimer, and interacts with WFIKKN2, leading to inhibit its activity. This protein can act specifically as a negative regulator of skeletal muscle growth. It regulates cell growth and differentiation in both embryonic and adult tissues. Experiments in mice have improved that GDF-8 is a key regulator of mesenchymal stem cell proliferation and differentiation, and mice lacking Myostatin encoding gene show decreased body fat and a generalized increase in bone density and strength.

#### Product Info

**Amount :** 10 µg / 50 µg  
**Content :** Lyophilized from a 0.2 µm filtered solution of PBS,pH7.4.  
**Storage condition :** Lyophilized protein should be stored at -20°C, though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at -20°C for 3 months.  
**Amino Acid :** NEGSEREENVEKEGLCNACAWRQNTRYSRIEAIKIQILSKLRLETAPNISKDAIRQLLPAPPLRELID  
QYDVQRDDSSDGSLEDDDYHATTETIITMPTESDFLMQADGKPKCCFFKFSSKIQYNKVVKAQLWI  
YLRPVKTPTTVFVQILRLIKPMKDGTRYTGIRSLKLDMSPGTGIWQSIDVKTVLQNWLKQPESNLGIE  
IKALDENGHDLAVTFPGPGEDGLNPFLEVKVTDTPKRSVDHHHHHH

#### Application Note

Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100 µg/ml. Dissolve the lyophilized protein in ddH<sub>2</sub>O. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

**Endotoxin :** Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test.