GDF-8 Protein, Human/Mouse/Rat (HEK293)

Cat. No.:	HY-P72632
Synonyms:	Growth/differentiation factor 8; GDF-8; Myostatin; MSTN
Species:	Rat
Source:	HEK293
Accession:	O14793 (K262-S375)
Gene ID:	2660
Molecular Weight:	12-15 kDa

PROPERTIES

AA Sequence	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
Biological Activity	Determined by its ability to inhibit the proliferation of MPC-11 cells. The ED_{50} for this effect is 23.3 ng/mL, corresponding to a specific activity is 4.29×10^4 U/mg.
Appearance	Lyophilized powder
Formulation	Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4.
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. 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	GDF-8 (Growth Differentiation Factor 8) serves as a specific negative regulator of skeletal muscle growth. It forms homodimers linked by disulfide bonds and interacts with WFIKKN2, thereby inhibiting the activity of the latter. Additionally, GDF-8 interacts with FST3, contributing to its regulatory role in modulating skeletal muscle growth.

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

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