

GDF-15 Protein, Mouse (HEK293, His-Flag)

Cat. No.:	HY-P700293
Synonyms:	Growth Differentiation Factor 15; Macrophage inhibitory cytokine 1; GDF-15; MIC-1; NAG-1; PLAB; PTGFB; Gdf15; Sbf
Species:	Mouse
Source:	HEK293
Accession:	Q9Z0J7 (S189-A303)
Gene ID:	23886
Molecular Weight:	14-16 KDa

PROPERTIES

AA Sequence	<p>S A H A H P R D S C P L G P G R C C H L E T V Q A T L E D L G W S D W V L S P R</p> <p>Q L Q L S M C V G E C P H L Y R S A N T H A Q I K A R L H G L Q P D K V P A P C</p> <p>C V P S S Y T P V V L M H R T D S G V S L Q T Y D D L V A R G C H C A</p>
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of 4 mM HCl.
Endotoxin Level	Less than 1 EU/µg as determined by LAL test.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O. 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	<p>GDF-15 Protein plays a crucial role in regulating food intake, energy expenditure, and body weight in response to metabolic and toxin-induced stresses. It accomplishes this by binding to its receptor, GFRAL, and activating GFRAL-expressing neurons located in the area postrema and nucleus tractus solitarius of the brainstem. This activation subsequently triggers the activation of neurons within the parabrachial nucleus and central amygdala, which are part of the 'emergency circuit' responsible for shaping feeding responses in stressful conditions. Additionally, GDF-15 Protein inhibits growth hormone signaling on hepatocytes and forms a homodimer that is disulfide-linked. It also interacts with GFRAL, acting as a ligand to facilitate GDF15 internalization and cellular signaling through its interaction with RET.</p>
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Caution: Product has not been fully validated for medical applications. For research use only.

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