

Animal-Free IGF-II Protein, Mouse (His)

Cat. No.:	HY-P700185AF
Synonyms:	AL033362; Igf; Igf-; Igf-2; M; M6; M6pr; Mpr; Peg; Peg2
Species:	Mouse
Source:	E. coli
Accession:	P09535-1 (A25-E91)
Gene ID:	16002
Molecular Weight:	Approximately 8.20 kDa

PROPERTIES

AA Sequence	A Y G P G E T L C G G E L V D T L Q F V C S D R G F Y F S R P S S R A N R R S R G I V E E C C F R S C D L A L L E T Y C A T P A K S E
Biological Activity	Measure by its ability to induce MCF-7 cells proliferation. The ED ₅₀ for this effect is <6 ng/mL. The specific activity of recombinant mouse IGF-II is >1.5 x 10 ⁵ IU/mg.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a solution containing 1X PBS, pH 8.0, trehalose.
Endotoxin Level	<0.1 EU per 1 µg of the protein by the LAL method.
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	The IGF-II protein emerges as a key factor in glucose-mediated insulin secretion, co-secreted with insulin and functioning as a physiological amplifier for this process. Notably, IGF-II demonstrates osteogenic properties by enhancing osteoblast mitogenic activity through the phosphoactivation of MAPK1 and MAPK3. This dual role underscores the protein's significance in both glucose homeostasis and bone metabolism, highlighting its potential therapeutic relevance in contexts related to insulin secretion and bone health.
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Caution: Product has not been fully validated for medical applications. For research use only.

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