

## Product Data Sheet

## Animal-Free IGF-I Protein, Pig (His)

Cat. No.:	HY-P700241AF
Synonyms:	Insulin-like growth factor I; IGF-I; MGF; Somatomedin-C; IBP1
Species:	Pig
Source:	E. coli
Accession:	P16545 (G49-A118)
Gene ID:	397491
Molecular Weight:	Approximately 8.59 kDa

PROPERTIES	
AA Sequence	MGPETLCGAE LVDALQFVCG DRGFYFNKPT GYGSSSRRAP QTGIVDECCF RSCDLRRLEM YCAPLKPAKS A
Appearance	Lyophilized powder.
Formulation	Lyophilized from a solution containing 1X PBS, pH 8.0.
Endotoxin Level	<0.1 EU per 1 $\mu g$ of the protein by the LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 $\mu\text{g}/\text{mL}$ in ddH2O.
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

in stimulating glucose transport in bone-derived osteoblastic (PyMS) cells a, IGF-I extends its impact to glycogen and DNA synthesis, as well as an synapse maturation, IGF-I is implicated in Ca(2+)-dependent exocytosis lfactory bulb. Functioning as a ligand for IGF1R, it binds to the alpha sine kinase activity, leading to a cascade of downstream signaling events, a Ras-MAPK pathways. Essential for IGF1 signaling, IGF-I forms crucial
nd ITGA6:ITGB4) and IGFR1, influencing the phosphorylation and activation

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

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