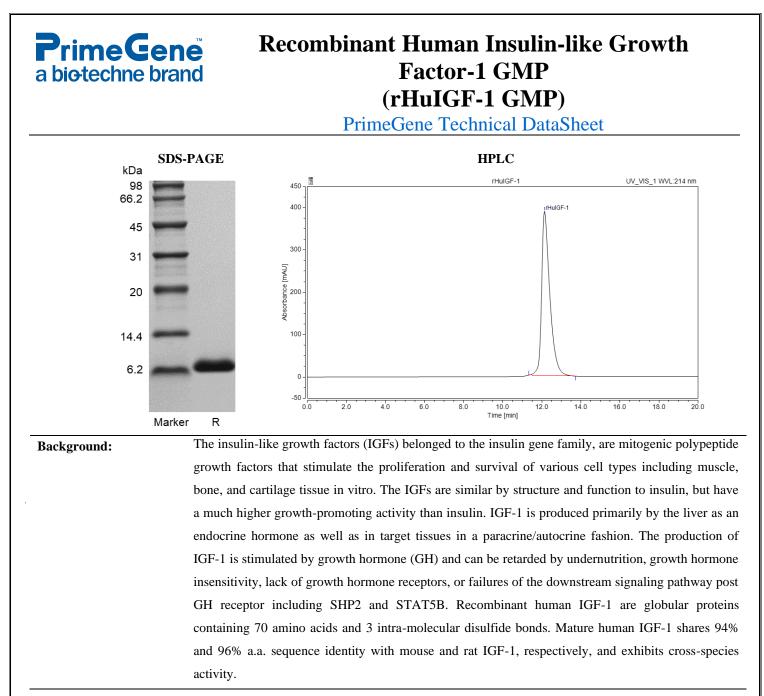
## **PrimeGene** a biotechne brand

## Recombinant Human Insulin-like Growth Factor-1 GMP (rHuIGF-1 GMP)

PrimeGene Technical DataSheet

Catalog Number:	GMP-105-01
Source:	Escherichia coli
Molecular Weight:	Approximately 7.6 kDa, a single non-glycosylated polypeptide chain containing 70 amino acids.
Size:	5 µg/100 µg/1 mg
Sequence:	GPETLCGAEL VDALQFVCGD RGFYFNKPTG YGSSSRRAPQ TGIVDECCFR SCDLRRLEMY
	CAPLKPAKSA
Purity:	> 98% by SDS-PAGE and HPLC analyses.
<b>Biological Activity:</b>	Measured in a cell proliferation assay using MCF 7 human breast cancer cells. The specific activity of
	recombinant human IGF-I/IGF-1 is >1000 IU/mg, which is calibrated against the human IGF-I/IGF-1
	WHO International Standard (NIBSC code: 91/554).
Physical Appearance:	Sterile filtered white lyophilized (freeze-dried) powder.
Formulation:	Lyophilized from a 0.2 µm filtered concentrated solution in PBS, pH 7.0.
Endotoxin:	Less than 0.01 EU/ $\mu$ g of rHuIGF-1 GMP as determined by LAL method.
Sterility:	Negative.
Mycoplasma:	Negative.
Host Cell Protein:	Less than 0.05% when tested by ELISA.
Host Cell DNA:	Less than 20 ng/mg when tested by qPCR.
In Vitro Virus Assay:	Negative.
<b>Reconstitution:</b>	Prior to opening, it is recommended to centrifuge the vial briefly to bring the contents down the
	bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1% BSA to a
	concentration of 0.1-1.0 mg/mL. If animal-origin-free condition is expected in your product, then
	sterile distilled water is recommended. Stock solutions should be apportioned into working aliquots
	and stored at $\leq$ -20 °C. Further dilutions should be made in appropriate buffered solutions.
Shipping:	The product is shipped with polar packs. Upon receipt, store it immediately at the temperature
	recommended below.
Stability & Storage:	Use a manual defrost freezer and avoid repeated freeze-thaw cycles.
	• A minimum of 12 months from date of receipt, when stored at $\leq$ -20 °C as supplied.
	• 1 month, 2 to 8 °C under sterile conditions after reconstitution.
	• 3 months, -20 to -70 °C under sterile conditions after reconstitution.
	• Refer to lot-specific CoA for the Expiry Date.
Usage:	This material is offered by Shanghai PrimeGene Bio-Tech for research, laboratory, or further
	evaluation purposes. NOT FOR HUMAN USE.
Quality Statement:	The manufacturing and testing of these products comply with ICH Q7 guidelines.

Website: www.primegene.com Fax: +86 21 61077348



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Shanghai PrimeGene Bio-Tech Co., Ltd. Website: <u>www.primegene.com.cn</u> Tel: +86 21 52380373

Website: <u>www.primegene.com</u> Fax: +86 21 61077348 Email: <u>info.pg@bio-techne.com</u> Page: 2 / 2