

## Product Information

### SILu™Prot Insulin-like Growth Factor I, human recombinant, expressed in *E. coli* SIL MS Protein Standard, <sup>15</sup>N-labeled

Catalog Number **MSST0063**

Storage Temperature –20 °C

#### Product Description

SILu™Prot Insulin-like Growth Factor I (IGF1) is a recombinant, <sup>15</sup>N stable isotope-labeled protein, expressed in *E. coli*. IGF1 is a small protein consisting of 70 amino acids and three disulfide bonds.

Type	<sup>15</sup> N labeled IGF1 *	Native IGF1**	Measured/Theoretical IGF1***
Non-reduced	7740.0	7742.7	91.3/94.0

\* Average mass measured on qTOF mass spectrometer

\*\* Theoretical average mass

\*\*\* Theoretical mass shift assuming 100% <sup>15</sup>N incorporation

Each vial contains 10–20 µg of labeled SILu™Prot IGF1 lyophilized from a solution of 0.5 mM methionine in 2% acetic acid. Vial content was determined by BCA assay.

UniProt: P05019 (Gly 49-Ala118)

#### Sequence Information:

GPETLCGAELVDALQFVCGDRGFYFNKPTGYGSSSR  
RAPQ TGIVDECCFRSCDLRRLEMYCAPLKPAKSA

Formula (non-reduced): C<sub>331</sub>H<sub>512</sub>N<sub>94</sub>O<sub>101</sub>S<sub>7</sub>

Molecular mass of <sup>15</sup>N labeled non-reduced protein:  
7742.7 (7648.7 + 94 <sup>15</sup>Ns)

Purity: ≥95% (HPLC)

Heavy nitrogen incorporation efficiency: ≥97% (MS)

#### Precautions and Disclaimer

This product is for R&D use only, not for drug, household, or other uses. Please consult the Safety Data Sheet for information regarding hazards and safe handling practices.

#### Preparation Instructions

Briefly centrifuge the vial before opening. It is recommended to reconstitute the protein with 2% acetic acid to a final concentration of 100 µg/ml. In order to minimize oxidation, 2 mM methionine may be added to the reconstitution solution.

#### Storage/Stability

Store the lyophilized product at –20 °C. The product is stable for at least 2 years as supplied.

After reconstitution, it is recommended to store the protein in working aliquots at –20 °C.

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#### Legal Information

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