



# AMINO PEPTIDES

## PRODUCT SPECIFICATION SHEET

*Note: This document details the theoretical chemical properties and target specifications of this research compound. For batch-specific, independent laboratory test results, please refer to the independent Certificate of Analysis (C.O.A.) provided on our product page.*

### 1. Product Identification

**Product Name:** MGF (Mechano Growth Factor)

**Synonyms:** IGF-1Ec, IGF-1Eb, MGF E-peptide, Insulin-like growth factor I mechano growth factor

**CAS Number:** 12020-86-9

**PubChem CID:** 175675731

### 2. Chemical Properties

**Amino Acid Sequence:**

Tyr-Gln-Pro-Pro-Ser-Thr-Asn-Lys-Asn-Thr-Lys-Ser-Gln-Arg-Arg-Lys-Gly-Ser-Thr-Phe-Glu-Glu-Arg-Lys

**Molecular Formula:** C<sub>121</sub>H<sub>199</sub>N<sub>41</sub>O<sub>40</sub>

**Theoretical Molecular Weight:** 2868.17 Da

**Form:** Lyophilised powder

**Appearance:** Solid, White

### 3. Target Specifications

**Target Purity (HPLC):** >= 98.0%

**Target Identity (MS):** Expected MW 2868.17 Da (± standard analytical tolerance)

**Expected Peptide Content:** >= 80.0%

### 4. Storage and Handling Guidelines

**Storage (Lyophilised):** Store at -20°C or below. Protected from light and moisture.

**Storage (Reconstituted):** Store at 2°C to 8°C for up to 20 days. Do not freeze once reconstituted.

**Usage:** For laboratory research and in-vitro use only. Not for human or veterinary use.