



Product Data Sheet

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| Product Name: | MOTS-c | |
| Catalog Number: | AS-65587 (1 mg) | Lot Number: See label on vial |
| Sequence: | NH ₂ -Met-Arg-Trp-Gln-Glu-Met-Gly-Tyr-Ile-Phe-Tyr-Pro-Arg-Lys-Leu-Arg-COOH H-MRWQEMGYIFYPRKLR-OH | |
| Molecular Weight: | 2174.7 | |
| Peptide Purity: | Peak Area by HPLC ≥95% | |
| Storage: | This peptide is shipped at ambient temperature. Upon receipt, store lyophilized peptide at –20°C or lower. Reconstituted peptide can be aliquoted and stored at –20°C or lower. | |
| Description: | Recent advances in high-resolution sequencing have led to the discovery of unique peptides derived from mitochondrial genome. ¹⁻² Currently 8 peptides are identified: humanin, mitochondrial open reading frame of the 12S tRNA-c (MOTS-c), and six small humanin-like peptides (SHLP1-6). ¹⁻² All of these peptides are released into cytosol from mitochondria and associate with increased longevity and cell viability, reduced apoptosis, and other beneficial functions. ¹⁻³ MOTS-c was found to reduce insulin resistance, decrease obesity, and promote homeostasis. ³ | |
| Related Products: | Humanin, Cat# AS-60886 SHLP-1, Cat# AS-65588 SHLP-3, Cat# AS-65589 SHLP-4, Cat# AS-65590 SHLP-6, Cat# AS-65591 | |
| References: | <ol style="list-style-type: none">1. Cobb L. J. et al., <i>AGING</i> 8 (4), 796-808 (2016).2. Okada A. K. et al., <i>Sci Reports</i> 7 (7802), 1-10 (2017).3. Lee C., et al., <i>Cell Met</i> 21, 443-454 (2015). | |

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