

PRODUCT: MOTS-c (human)

ALTERNATE NAME: H-Met-Arg-Trp-Gln-Glu-Met-Gly-Tyr-Ile-Phe-Tyr-Pro-Arg-Lys-Leu-Arg-OH . TFA; Mitochondrial Open Reading Frame of the 12S rRNA-c; MOTS3

CATALOG #: 9697-1

AMOUNT: 1 mg

STRUCTURE:



MOLECULAR FORMULA: C₁₀₁H₁₅₂N₂₈O₂₂S₂.C₂H₃O₂

MOLECULAR WEIGHT: 2288.6

CAS NUMBER: 1627580-64-6

APPEARANCE: Lyophilized solid

SOLUBILITY: H₂O

PURITY: ≥95% by HPLC

STORAGE: Store at -20°C. Protect from air and moisture

DESCRIPTION: MOTS-c is a mitochondria-derived peptide (MDP) that promotes biosynthesis of the endogenous AMP analog AICAR and consequently AMP-activated protein kinase (AMPK). Induces cellular and systemic glucose uptake and improves insulin sensitivity. Shown to prevent diet-induced obesity (DIO) in mice. Potential anti-obesity and anti-aging compound.

REFERENCES: Lee, C., *et al.* (2015). *Cell. Metab.* **21**, 443-454.

HANDLING: Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.

RELATED PRODUCTS:

A-769662 (**Cat. No. 1719-5**)

AICAR (**1687-50, 250**)

EZSolution™ AICAR (**Cat. No. 2344-50**)

AICA Riboside 5'-phosphate (**Cat. No. 9416-5, 25**)

Cordycepin (**Cat. No. 2078-10, 50**)

Metformin hydrochloride (**Cat. No. 1691-5G**)

Phenformin hydrochloride (**Cat. No. 1889-100, 1000**)

USAGE: **FOR RESEARCH CH USE ONLY! Not to be used in humans**