03/16

RELATED PRODUCTS: A-769662 (Cat. No. 1719-5) AICAR (1687-50, 250)

EZSolution™ AICAR (Cat. No. 2344-50)

Metformin hydrochloride (Cat. No. 1691-5G) Phenformin hydrochloride (Cat. No. 1889-100, 1000)

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

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

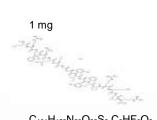
PRODUCT:

ALTERNATE NAME:

CATALOG #:

AMOUNT:

STRUCTURE:



9697-1

12S rRNA-c; MOTS3

MOTS-c (human)

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

MOLECULAR FORMULA:	$C_{101}H_{152}N_{28}O_{22}S_2.C_2HF_3O_2$
MOLECULAR WEIGHT:	2288.6
CAS NUMBER:	1627580-64-6
APPEARANCE:	Lyophilized solid
SOLUBILITY:	H ₂ O
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.

USAGE:

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