

For Research Use Only

# MOTS-c(Human) Acetate (1627580-64-6 free)



Catalog Number: CM11461

## 产品信息

**Catalog Number:**  
CM11461

**CAS号:**  
TP2312

**分子式:**  
 $C_{103}H_{156}N_{28}O_{24}S_2$

**主要靶点:**  
Others|AMPK

**主要通路:**  
其他|PI3K/Akt/mTOR信号通路|表观遗传

**分子量:**  
2234.64

**溶解度:**  
DMSO:10 mM

Met-Arg-Trp-Gln-Glu-Met-Gly-Tyr-Ile-Phe-Tyr-Pro-Arg-Lys-Leu-Arg(acetate salt)

## 体外活性

MOTS-c inhibits the folate cycle at the level of 5Me-THF, resulting in an accumulation of AICAR [5-aminoimidazole-4-carboxamide ribonucleotide). MOTS-c also increases cellular NAD<sup>+</sup> levels, which are also nucleotide precursors[1].

## 体内活性

MOTS-c injections in mice show activation of skeletal muscle AMPK and increased the level of its downstream glucose transporter GLUT4. MOTS-c may also act as a potential mitochondrial signal that mediates an exercise-induced mitohormesis response, thereby stimulating physiological adaptation and increased tolerance to exercise[1].

## 描述

MOTS-c(Human) Acetate is a mitochondrial-derived peptide. MOTS-c(human) acetate induces the accumulation of AMP analog AICAR, increases activation of AMPK and expression of its downstream GLUT4. MOTS-c(human) acetate induces glucose uptake and improves insulin sensitivity. MOTS-c(human) acetate has implications in the regulation of obesity, diabetes, exercise, and longevity.

## 储存

Powder: -20°C for 3 years | In solvent: -80°C for 2 years

For technical support and original validation data for this product please contact

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