

Product Name: MOTS-c(human) acetate

Cat. No.: MRP-2505-CXX-22

Package: 5 mg/10 mg/50 mg/100 mg/200 mg

Description

Human MOTS-c acetate is a blood-brain barrier-penetrating, mitochondrial-derived peptide that enhances insulin sensitivity by modulating the AMPK/PGC-1 α pathway. It inhibits the folate cycle and de novo purine synthesis, increases AICAR to activate AMPK, regulates the Nrf2/Keap1 antioxidant pathway, inhibits NF- κ B inflammation, and promotes mitochondrial biogenesis and energy metabolism.

Product Details

Purity: 98.97%

Formula: C₁₀₃H₁₅₆N₂₈O₂₄S₂

Molecular Weight: 2234.64

Appearance: Solid

Color: White to off-white

Biological Target: AMPK; GLUT

Research Areas: Neurological Disease, Metabolic Disease, Inflammation/Immunology, Endocrinology


Sequence: Met-Arg-Trp-Gln-Glu-Met-Gly-Tyr-Ile-Phe-Tyr-Pro-Arg-Lys-Leu-Arg

Sequence Shortening: MRWQEMGYIFYPRKLR

Solubility: H₂O: 6.25 mg/mL (2.80 mM, need ultrasonic); DMSO: 4 mg/mL (1.79 mM, need ultrasonic)

Shipping Conditions: Room Temperature

Storage Information: Powder: -80°C (2 years), -20°C (1 year); In solvent: -80°C (6 months), -20°C (1 month)

 For preclinical research and development use only; not intended for therapeutic or other applications.