

Product Name: MOTS-c (human)

Cat. No.: MRP-2505-CXX-20

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

Description

Human MOTS-c 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: 99.90%

Formula: C₁₀₁H₁₅₂N₂₈O₂₂S₂

Molecular Weight: 2174.59

Appearance: Solid

Color: White to off-white

Biological Target: Apoptosis; GLUT; AMPK


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

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.