



PEP Me

— EAST RAND —

ENHANCING QUALITY OF LIFE THROUGH SCIENCE

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GAUTENG

MOTS-C

NEUROPROTECTIVE EFFECTS

Preliminary studies have indicated potential neuroprotective properties of MOTS-C, particularly in models of stress and neurodegeneration. MOTS-C may help to reduce oxidative stress and inflammation in neuronal cells, suggesting possible applications in neurodegenerative conditions (Hernandez et al., 2020).



MOTS-C

Supporting brain cells.
Protecting what matters.



MOTS-C helps protect neurons by improving mitochondrial health and reducing cellular stress and inflammation.

By supporting neuronal survival and function, MOTS-C shows promise for addressing the underlying mechanisms of neurodegenerative diseases.

HOW MOTS-C SUPPORTS NEURONAL HEALTH

1

**REDUCES
OXIDATIVE STRESS**



MOTS-C decreases the production of reactive oxygen species (ROS) and enhances antioxidant defenses in neurons.

2

**REDUCES
INFLAMMATION**



MOTS-C helps lower neuroinflammation by modulating inflammatory cytokines and microglial activation.

3

**IMPROVES
MITOCHONDRIAL
FUNCTION**



Enhances mitochondrial biogenesis, energy production, and efficiency – critical for neuronal health and synaptic function.

4

**SUPPORTS NEURONAL
SURVIVAL & FUNCTION**



Helps maintain neuronal integrity, synaptic plasticity, and communication between brain cells.

5

**MAY SLOW
NEURODEGENERATION**



By targeting key pathways in stress and degeneration, MOTS-C may help slow the progression of neurodegenerative conditions.

NEURODEGENERATIVE STRESS: THE PROBLEM

WITHOUT MOTS-C



- ✗ High oxidative stress
- ✗ Elevated inflammation
- ✗ Mitochondrial dysfunction
- ✗ Neuronal damage & loss
- ✗ Cognitive decline

VS.

WITH MOTS-C



- ✓ Lower oxidative stress
- ✓ Reduced inflammation
- ✓ Healthy mitochondria
- ✓ Neuronal protection
- ✓ Better cognitive function



MOTS-C helps create a neuroprotective environment that supports long-term brain health.

RESEARCH HIGHLIGHT

Hernandez et al., 2020

Studies in cellular models of stress and neurodegeneration suggest that MOTS-C reduces oxidative stress and inflammation in neuronal cells, supporting its potential as a therapeutic candidate for neurodegenerative diseases.



Oxidative Stress
& Inflammation

+

MOTS-C

=



Neuroprotection
& Improved Cell Health



MOTS-C shows potential in models of Alzheimer's, Parkinson's, and other neurodegenerative conditions by targeting root cellular dysfunction.

POTENTIAL APPLICATIONS IN NEURODEGENERATIVE CONDITIONS



Alzheimer's Disease
Research



Parkinson's Disease
Research



Traumatic Brain Injury
& Recovery



Chronic Stress
& Anxiety



Cognitive Decline
& Aging Brain



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GUIDANCE & EDUCATION**
Because informed decisions matter.



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NO SUBSCRIPTIONS**
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