



- + Cellular adaptation
- + Recovery support
- + Metabolism



# RiboCARE<sup>®</sup> ENDURANCE

Improves muscle **cells function**, supporting energy **metabolism**.

## WHAT is RiboCARE<sup>®</sup> ENDURANCE?

RiboCARE<sup>®</sup> ENDURANCE is a blend of pure nucleotides 20% each (AMP+CMP+GMP+UMP+IMP), designed to support muscle cell metabolism and functionality.

### Beneficial effects for different scopes:

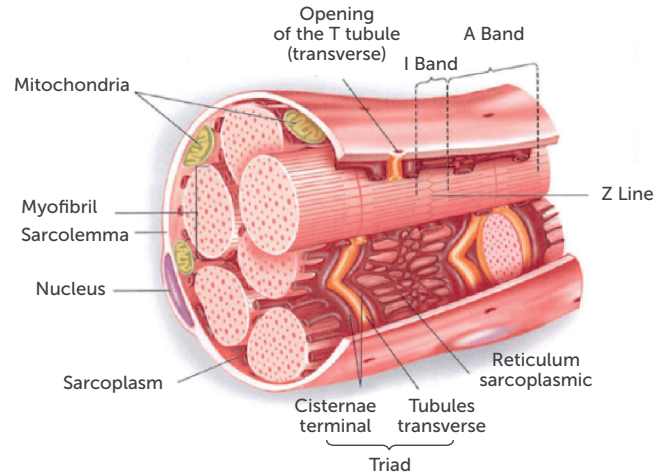


[www.prosol.it](http://www.prosol.it)



## TEST AIM

To examine the effects of the administration of a mixture of nucleotides and nucleotide-ribose on energy metabolism and contractility in cultured skeletal muscle cells in presence or absence of caffeine-dependent hyper-contraction.



## CELL MODEL

C2C12 skeletal muscle cells. Myoblasts that differentiate rapidly to myotubes.



## RESULTS

**1**

In physiological conditions, the tested nucleotides can support and improve the energy balance of the cell and in conditions of intense physical exercise they support a prevention mechanism capable of counteracting the damage caused by severe hypercontraction conditions.

**2**

The results obtained show for the first time, a direct effect of nucleotides on energy metabolism and Calcium/Magnesium movements during *in vitro* exercise simulation and provide useful indications to support muscle cells during exercise or during aging.



## PRODUCTS AND DOSAGES

### INGREDIENTS:

RiboCARE® ENDURANCE

### CORRESPONDING DOSAGE\*:

150 mg

\*daily dose 70 Kg body weight

**PRODUCT EFFECT**

**RiboCARE® ENDURANCE**

Effect on Muscle Contraction

DELAYED

Effect on Recovery

POSITIVE

### Study performed at:

Laboratory Physiology, Department of Translational Medicine Novara (Italy) - Scientific Ref.: Dott. Francesca Uberti

### Published article:

Francesca Uberti\*, Sara Ruga, Vera Morsanuto, Rebecca Galla, Mahitab Farghali, Claudio Molinari - Role of Ribonucleotides in Improving Muscle Cell Function - J Food Sci Nutr Res 2020; 3 (4): 231-251 DOI: 10.26502/jfsnr.2642-11000052

