Titin-mediated thick filament activation stabilizes myofibrils on the descending limb of their force-length relationship

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Running head:

Mechanosensing of the thick filament can stabilize myofibrils

Highlights:

-Simulations show that force-dependent activation of thick filaments can prevent sarcomere length instabilities.

-The mechanism thereby stabilize the descending limb of the force-length relationship of myofibrils

-It could be a simple regulation mechanism to prevent overstretching of sarcomeres.

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