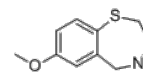


Product Name : S107
Cat. No. : PC-21371
CAS No. : 927871-76-9
Molecular Formula : C₁₁H₁₅NOS
Molecular Weight : 209.31
Target : Calcium Channel
Solubility : 10 mM in DMSO



Biological Activity

S107 (RyR2 stabilizer) is a specific stabilizing compound of Ca²⁺ release channel ryanodine receptor 2 (RyR2), enhances calstabin2 binding and inhibits Ca²⁺ leak from mutant RyR2 channels.

S107 does not interact with over 400 receptors, enzymes, and ion channels in screens using up to 10 μM.

S107 also shows no effect on cardiac ion channels including the voltage-gated Na⁺, K⁺, and Ca²⁺ channels at concentrations up to 10 μM, and no effect on normal Ca²⁺ signaling in cells.

S107 prevents depletion of calstabin1 from the RyR1 complex improved force generation and exercise capacity, reduced Ca²⁺-dependent neutral protease calpain activity and plasma creatine kinase levels.

S107 improves Ca²⁺ handling in muscle fibers and reduces muscle fatigue.

References

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Bellinger A.M., et al. Proc. Natl. Acad. Sci. U. S. A. 2008;105:2198-2202.

Wehrens XH, et al. Science. 2004;304:292-296.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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