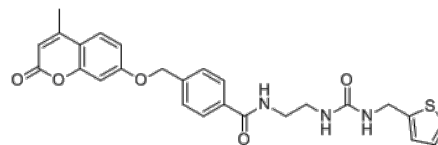


Product Name : MyoMed-205
Cat. No. : PC-38106
CAS No. : 2614161-13-4
Molecular Formula : C₂₆H₂₅N₃O₅S
Molecular Weight : 491.562
Target : E3 Ubiquitin Ligase
Solubility : 10 mM in DMSO



Biological Activity

MyoMed-205 is a small molecule that inhibits **MuRF1 (TRIM63)** activity and MuRF1/MuRF2 expression.

MyoMed-205 has improved serum stability when compared with initial lead compound ID#704946.

MyoMed-205 attenuates induction of MuRF1 in tumor stressed muscles. MyoMed-205 also rescues citrate synthase and complex-1 activities in tumor-stressed muscles.

MyoMed-205 attenuates skeletal muscle strength loss in mouse model for type 2 diabetes mellitus (T2DM), with no significant effects on serum glucose.

MuRF1 (muscle-specific RING finger protein-1) is a muscle-specific ubiquitin ligase that regulates muscle catabolism during chronic wasting states, both MuRF1 and MuRF2 participate in glucose and, also, in lipid regulation.

References

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Labeit S, et al. *Int J Mol Sci*. 2021 Feb 23;22(4):2225.

Bowen TS, et al. *J Cachexia Sarcopenia Muscle*. 2017 Dec;8(6):939-953.

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

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