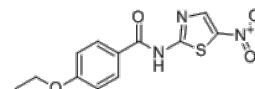


Product Name : MID-1
Cat. No. : PC-35530
CAS No. : 312608-54-1
Molecular Formula : C₁₂H₁₁N₃O₄S
Molecular Weight : 293.30
Target : Other Targets
Solubility : 10 mM in DMSO



Biological Activity

MID-1 (ChemBridge5655896) is a specific small molecule **MG53-IRS-1** interaction disruptor (MID), but not MG53-FAK and Cav-3 interaction.

MID-1 increases the IRS-1 protein level in C2C12 myotubes, abrogates MG53-induced IRS-1 ubiquitination and degradation. MID-1 potentially sensitizes insulin signaling with an elevated level of IRS-1 in skeletal muscle, enhances C2C12 myogenesis.

References

Lee H, et al. *J Biol Chem*. 2016 Dec 23;291(52):26627-26635.

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

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