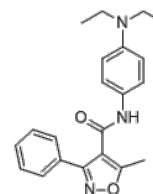


Product Name : 3i-1000
Cat. No. : PC-63247
CAS No. : 544681-96-1
Molecular Formula : C₂₁H₂₃N₃O₂
Molecular Weight : 349.434
Target : GATA Binding Protein
Solubility : 10 mM in DMSO



Biological Activity

3i-1000 is a potent, small molecule inhibitor of **GATA4-NKX2-5 interaction**, inhibits GATA4-NKX2-5 transcriptional synergy with IC₅₀ of 3 μ M.

3i-1000 inhibits cardiac gene expression induced by mechanical stretch and phenylephrine, such as ANP and BNP, without significantly influencing the baseline mRNA levels, inhibits hypertrophic process in cardiomyocytes in vitro.

3i-1000 significantly inhibits PE-induced elevation in GATA4 Ser-105 phosphorylation in neonatal rat cardiomyocytes.

3i-1000 promotes myocardial repair in experimental model of myocardial ischemia reperfusion injury.

References

Kinnunen SM, et al. *Sci Rep.* 2018 Mar 15;8(1):4611.

Välimäki MJ, et al. *J Med Chem.* 2017 Sep 28;60(18):7781-7798.

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

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