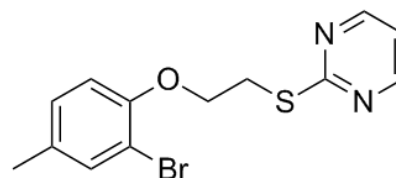


Product Name : ZLN-024
Cat. No. : PC-45054
CAS No. : 723249-01-2
Molecular Formula : C₁₃H₁₃BrN₂OS
Molecular Weight : 325.2241
Target : AMPK
Solubility : 10 mM in DMSO



Biological Activity

ZLN-024 is a potent, allosteric **AMPK** activator that has no effect on mitochondrial function or the ADP/ATP ratio, directly activate recombinant AMPK $\alpha 1\beta 1\gamma 1$ and its homologue $\alpha 2\beta 1\gamma 1$ with EC₅₀ of 0.42 μ M and 0.95 μ M, respectively. ZLN-024 also directly activate recombinant AMPK $\alpha 1\beta 2\gamma 1$ (EC₅₀=1.1 μ M) and AMPK $\alpha 2\beta 2\gamma 1$ (EC₅₀=0.13 μ M). ZLN-024 activates AMPK in L6 myotubes and stimulates glucose uptake and fatty acid oxidation. ZLN-024 improves glucose tolerance, liver tissue weight, triacylglycerol and decreases the total cholesterol content in db/db mice (15 mg/kg/day).

References

Zhang LN, et al. *PLoS One*. 2013 Aug 20;8(8):e72092.

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

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