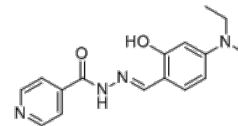


Product Name : RSVA405
Cat. No. : PC-47019
CAS No. : 140405-36-3
Molecular Formula : C₁₇H₂₀N₄O₂
Molecular Weight : 312.37
Target : AMPK
Solubility : 10 mM in DMSO



Biological Activity

RSVA405 is a small-molecule activator of **AMPK**, facilitates CaMKK β -dependent activation of AMPK, inhibits mTOR and promotes autophagy to increase A β degradation by the lysosomal system with EC₅₀ of 1 μ M.

RSVA405 inhibited 3T3-L1 adipocyte differentiation by interfering with mitotic clonal expansion during preadipocyte proliferation with IC₅₀ of 0.5 μ M.

RSVA405 prevented the adipogenesis-dependent transcriptional changes of multiple gene products involved in the adipogenic process, including PPAR γ , CCAAT/enhancer-binding protein α (C/EBP α), fatty acid synthase, fatty acid binding protein 4 (aP2), RANTES or resistin.

RSVA405 (20 and 100 mg/kg/d, oral) significantly reduced the body weight gain of mice fed a high-fat diet.

RSVA405 potently inhibited both constitutive and stimulated STAT3 activity in HEK293 cells and LPS-stimulated RAW 264.7 macrophages, respectively.

References

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Capiralla H, et al. *FEBS J*. 2012 Oct;279(20):3791-9.

Vingtdeux V, et al. *FASEB J*. 2011 Jan;25(1):219-31.

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

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