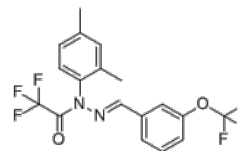


Product Name : CAD-031
Cat. No. : PC-61781
CAS No. : 2071209-49-7
Molecular Formula : C₁₈H₁₄F₆N₂O₂
Molecular Weight : 404.312
Target : AMPK
Solubility : 10 mM in DMSO



Biological Activity

CAD-031 (CAD031) is a novel brain penetrant **AMPK/ACC1** signaling pathway activator, J147-derivative that has enhanced neurogenic activity over J147 in human neural precursor cells (NPCs).

CAD-031 also stimulates the division of NPCs in the subventricular zone of old APP^{swe}/PS1^{ΔE9} mice.

CAD-031 rescues primary cortical neurons from oxytosis, and effectively reduce oxidative stress with EC₅₀ of 20 nM.

CAD-031 also prevents loss of energy metabolism that leads to neuron cell death in an in vitro ischemia model with EC₅₀ of 47 nM.

CAD-031 target fatty acid metabolism and inflammation, exhibits therapeutic efficacy on cognitive and physiological parameters in mouse model of AD .

References

Daugherty D, et al. *Alzheimers Res Ther.* 2017 Jul 14;9(1):50.

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

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