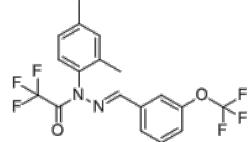

Product Name	:	CAD-031
Cat. No.	:	PC-61781
CAS No.	:	2071209-49-7
Molecular Formula	:	C ₁₈ H ₁₄ F ₆ N ₂ O ₂
Molecular Weight	:	404.312
Target	:	AMPK
Solubility	:	10 mM in DMSO



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 APPswe/PS1ΔE9 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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