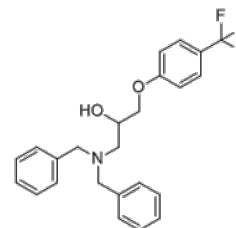


Product Name : BC1618
Cat. No. : PC-72478
CAS No. : 2222094-18-8
Molecular Formula : C₂₄H₂₄F₃NO₂
Molecular Weight : 415.456
Target : E3 Ubiquitin Ligase
Solubility : 10 mM in DMSO



Biological Activity

BC1618 (BC-1618) a novel inhibitor of orphan ubiquitin E3 ligase subunit protein **Fbxo48**, interrupts Fbxo48/pAmpk α interaction and increases pAmpk α levels.

BC1618 demonstrated greater potency in stimulating Ampk-dependent signaling than AICAR or metformin.

BC1618 increases the biological activity of Ampk not by stimulating the activation of Ampk, but rather by preventing activated pAmpk α from Fbxo48-mediated degradation.

BC1618 promotes mitochondrial fission, facilitates autophagy and improves hepatic insulin sensitivity in diet-induced obese mice.

References

Liu Y, et al. *Nat Chem Biol.* 2021 Mar;17(3):298-306.

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

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