

Product Name : Ampkinone

Synonyms : —

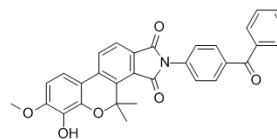
Cat No. : M10921

CAS Number : 1233082-79-5

Molecular Formula : C₃₁H₂₃NO₆

Formula Weight : 505.52

Chemical Name : [1]Benzopyrano[3,4-e]isoindole-1,3(2H,4H)-dione, 2-(4-benzoylphenyl)-6-hydroxy-7-methoxy-4,4-dimethyl-



Description : Ampkinone is a novel small molecule activator of AMPK, stimulates the phosphorylation of AMPK via indirect activation of AMPK in various cell lines (2.7-fold at 10 uM); Ampkinone-mediated activation of AMPK requires the activity of LKB1 and results in increased glucose uptake in muscle cells; significantly reduces total body weight and overall fat mass in DIO mice, effectively improves metabolic abnormalities in the DIO mice model.

Pathway : Membrane Transporter/Ion Channel

Target : AMPK

Receptor : AMPK

Solubility : 10 mM in DMSO

SMILES : CC1(C2=C(C=CC3=C2C(=O)N(C3=O)C4=CC=C(C=C4)C(=O)C5=CC=CC=C5)C6=C(O1)C(=C(C=C6)OC)O)C

Storage : (-20°C)

Stability : ≥ 2 years

Reference :

1. Oh S, et al. J Med Chem. 2010 Oct 28;53(20):7405-13.