

Ppc-1, MitoUncoupler

Product Background

Ppc-1 is a novel small molecule derived from cellular slime mold *Polysphondylium pseudo-candidum*. It enhances oxygen consumption in a dose-dependent manner and acts as moderate mitochondrial oxidative phosphorylation uncoupler without adverse effects on ATP production. In addition, Ppc-1 shows little cytotoxicity and enable us to use it *in vivo*.

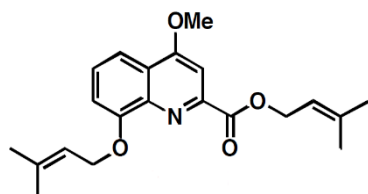
Description

Catalog Number: FDV-0011

Lot Number: see vial label

Size: 5 mg

Chemical structure



Chemical name: 3-Methylbut-2-enyl 4-methoxy-8-(3-methylbut-2-enyloxy)quinoline-2-carboxylate

CAS No.: 1245818-17-0

Molecular formula: C₂₁H₂₅NO₄

Molecular weight: 355.43

Solubility: Soluble in DMSO

Purity: ≥98%

License: This product has been commercialized with a license from Tohoku University and Fukushima Medical University School of Medicine.

Warning: Research use only. Not for use in humans.

Reconstitution and Storage

Reconstituion: Reconstitute at 10 mM as stock solution in DMSO.

※In the case of poor solubility, vortex or heat it at 37°C.

Storage: Store at -20°C. For reconstituted solution, store at +4°C. Protected from light.

Reference

- 1) Suzuki T, et. al, PLoS One. 2015 Feb10; 10(2):e0117088
- 2) Kikuchi H, et. al, Bioorg Med Chem. 2015 Jan1;23(1): 66-72
- 3) Kikuchi H, et. al, Tetrahedron 2010 66: 6000-6007