

Product Data Sheet

Product Name: Ppc-1
Cat. No.: GC91966

Chemical Properties

Cas. No. 1245818-17-0

Chemical Name 4-methoxy-8-[(3-methyl-2-buten-1-yl)oxy]-2-quinolinecarboxylic acid, 3-methyl-2-buten-1-yl ester

SMILES COC1=C(C=CC=C2OC/C=C(C)\C)C2=NC(C(OC/C=C(C)/C)=O)=C1

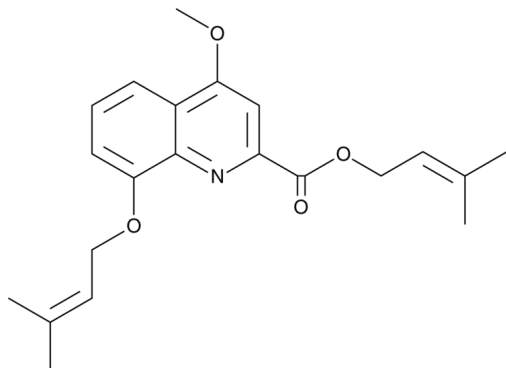
Formula $C_{21}H_{25}NO_4$ M.Wt 355.4

Solubility Storage -20°C

General tips For obtaining a higher solubility, please warm the tube at 37°C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice. All other available size: ship with RT, or blue ice upon request.

Structure



Background

Ppc-1 is a prenylated quinolinecarboxylic acid originally isolated from *P. pseudo-candidum* that has diverse biological activities.^{1,2,3} It reduces the proliferation of K562 chronic myelogenous leukemia (CML) cells and 3T3-L1 mouse fibroblasts when used at a concentration of $15\ \mu\text{M}$.¹ Ppc-1 (1 and $10\ \mu\text{M}$) inhibits the production of IL-2 induced by concanavalin A in Jurkat T cells.² *In vivo*, Ppc-1 ($0.8\ \text{mg/kg}$) reduces body weight gain and increases serum fatty acid levels in mice fed a commercial diet.³

Caution: Product has not been fully validated for medical applications. For research use only.

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References:

- [1]. Kikuchi, H., Nakamura, K., Kubohara, Y., et al. Novel prenylated and geranylated aromatic compounds isolated from Polysphondylium cellular slime molds. *Tetrahedron* 66(32):6000-6007 (2010).
- [2]. Ogura, M., Kikuchi, H., Suzuki, T., et al. Prenylated quinolinecarboxylic acid derivative suppresses immune response through inhibition of PAK2. *Biochem Pharmacol.* 105:55-65 (2016).
- [3]. Suzuki, T., Kikuchi, H., Ogura, M., et al. Weight loss by Ppc-1, a novel small molecule mitochondrial uncoupler derived from slime mold. *PLoS One* 10(2):e0117088 (2015).

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