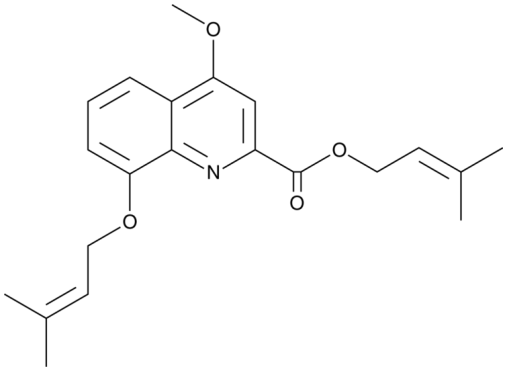
Product Data Sheet

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 ?M.[1] Ppc-1 (1 and 10 ?M) inhibits the production of IL-2 induced by concanavalin A in Jurkat T cells.[2] *In vivo*, Ppc-1 (0.8 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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Address: 10292 Central Ave. #205, Montclair, CA, USA

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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 moldsTetrahedron66(32)6000-6007(2010).
[2]. Ogura, M., Kikuchi, H., Suzuki, T., et al.Prenylated quinolinecarboxylic acid derivative suppresses immune response through inhibition of PAK2Biochem Pharmacol.10555-65(2016).
[3]. Suzuki, T., Kikuchi, H., Ogura, M., et al.Weight loss by Ppc-1, a novel small molecule mitochondrial uncoupler derived from slime moldPLoS One10(2)e0117088(2015).

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