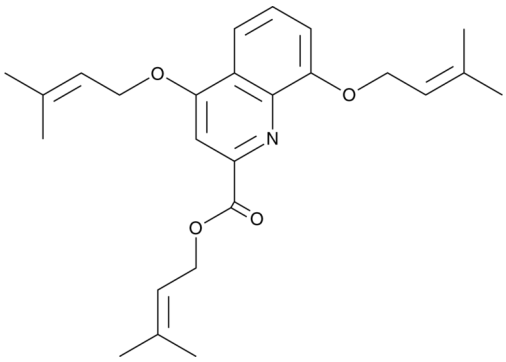
Product Data Sheet

Product Name: PQA-18
Cat. No.: GC92001

Chemical Properties

Cas. No.	1604678-82-1		
Chemical Name	4,8-bis[(3-methyl-2-buten-1-yl)oxy]-2-quinolinecarboxylic acid, 3-methyl-2-buten-1-yl ester		
SMILES	C/C(C)=C/COC1=C(C=CC=C2OC/C=C(C)\C)C2=NC(C(OC/C=C(C)/C)=O)=C1		
Formula	$C_{25}H_{31}NO_4$	M.Wt	409.5
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

PQA-18 is an inhibitor of p21-activated kinase 2 (PAK2; IC_{50} = 10 nM), an immunosuppressant, and a derivative of Ppc-1.[1] It inhibits the production of IL-2 induced by concanavalin A in Jurkat T cells (IC_{50} = 400 nM). Topical application of PQA-18 (0.1%) decreases disease severity, serum IgE levels, and skin thickness in the NC/Nga mouse model of atopic dermatitis. It also reduces cutaneous nerve fiber density in NC/Nga mice when applied topically at 0.05%.[2] PQA-18 (4 mg/kg) increases graft survival rate in a rat model of small intestine transplant.[3]

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

[1]. Ogura, M., Kikuchi, H., Suzuki, T., et al.Prenylated quinolinecarboxylic acid derivative suppresses immune response through inhibition of PAK2Biochem Pharmacol.10555-65(2016).
[2]. Ogura, M., Endo, K., Suzuki, T., et al.Prenylated quinolinecarboxylic acid compound-18 prevents sensory nerve fiber outgrowth through inhibition of the interleukin-31 pathwayPLoS One16(2)e0246630(2021).
[3]. Kodama, T., Maeda, A., Lo, P.-C., et al.The effect of a novel immunosuppressive drug, a PAK-2 inhibitor, on macrophage differentiation/polarization in a rat small intestinal transplantation modelTranspl. Immunol.57101246(2019).

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