

PQA-18, Immunosuppressor

Catalog NO. FDV-0009

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Product Background

PQA-18 is a novel small molecule which preserve prenylated quinolinecarboxylic acid (PQA) structure. PQA-18 exhibits suppression of IL2, IL4, IL6, and TNF- α production. Even *in vivo*, administration of PQA-18 suppress the population of a subset of regulatory T cells and antigen-specific immune response in mice. Underlining mechanism of immunosuppressant effect of PQA-18 is through the inhibition of kinase activity of p21-activated kinase 2 (PAK2). PQA-18 may be a safer immunosuppressant compound than others.

Description

Catalog Number: FDV-0009

Size: 5 mg

Formulation: C₂₅H₃₁NO₄

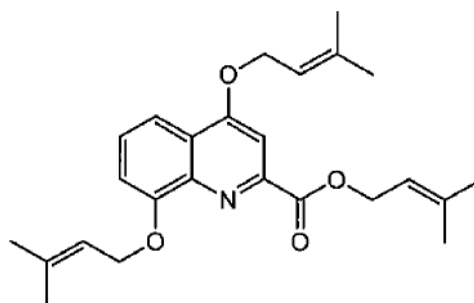
Molecular weight: 409.52 g/mol

Chemical structure: see right figure

CAS No.: 1604678-82-1

Solubility: Soluble in DMSO

Purity: \geq 98%



Reconstitution and Storage

Reconstitution: Stock solution recommended concentration 10-20 mM in 100% DMSO.

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

Storage (powder): Store powder at -20°C

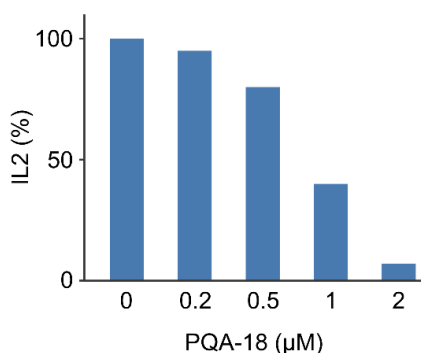
Storage (solution): After reconstitution in DMSO, aliquot and store at -20°C.

Avoid repeated freeze-thaw cycles and protected from light.

Reference data

Inhibition of IL2 production by PQA-18 in Jurkat cells.

Jurkat cells were treated with various concentration of PQA-18 and IL2 production was estimated by the IL2-ELISA system. PQA-18 inhibits IL2-production of Jurkat cells in a dose-dependent manner.



Reference

1. Ogura *et al.*, *Biochem. Pharmacol.*, **105**, 55-65, (2016) Prenylated quinolinecarboxylic acid derivative suppresses immune response through inhibition of PAK2

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