

## PQA-18, Immunosuppressor

### Product Background

PQA-18 is a novel small molecule which preserve prenylated quinolinecarboxylic acid (PQA) structure. PQA-18 exhibit suppression of IL2, IL4, IL6, and TNF- $\alpha$  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-1 is through the inhibition of kinase activity of p21-activated kinase 2 (PAK2). PQA-18 may be safer immunosuppressant compound than others.

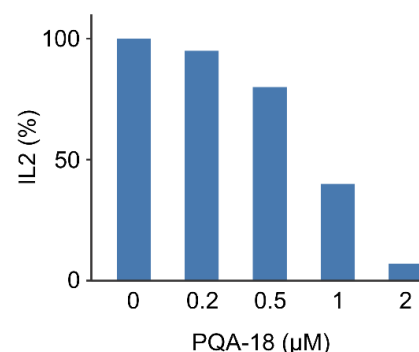
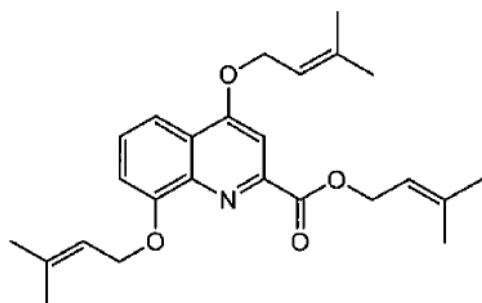
### Description

**Catalog Number:** FDV-0009

**Lot Number:** see vial label

**Size:** 5 mg

**Chemical structure**



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

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

**CAS No.:** 1604678-82-1

**Molecular formula:** C<sub>25</sub>H<sub>31</sub>NO<sub>4</sub>

**Molecular weight:** 409.52

**Solubility:** Soluble in DMSO

**Purity:**  $\geq$ 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

**Reconstitution:** Reconstitute at 10 ~ 20 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) Ogura M, et al, Biochem Pharmacol, 105:55-65, 2016