

Product Name : CPYPP

Synonyms : —

Cat No. : M22074

**CAS Number** : 310460-39-0

Molecular Formula : C18H13CIN2O2

Formula Weight : 324.76

Chemical Name : ----

CPYPP is an inhibitor of DOCK2-Rac1 interaction. CPYPP binds to DOCK2 DHR-2 domain and inhibits the guanine nucleotide exchange factor (GEF) activity of DOCK2DHR-2 for Rac1 in a dose-dependent manner(IC50: 22.8 µM). CPYPP also inhibits DOCK180, DOCK5 and less DOCK9CPYPP as a small-molecule inhibitor of DOCK2. PPPP bound to

Description : DOCK2 DHR-2 domain in a reversible manner and inhibited its catalytic activity in vitro.?When lymphocytes were treated with CPYPP, both chemokine receptor- and antigen receptor-mediated Rac activation were blocked, resulting in marked

reduction of chemotactic response and T cell activation.? These results provide a rational of and a chemical scaffold for development of the DOCK2-targeting immunosuppressant.

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Pathway : Others

Target : Other Targets

Receptor : DOCK2-Rac1;DOCK180;DOCK5;DOCK9

Solubility : DMSO : 23 mg/mL (70.82 mM; Need ultrasonic)

**SMILES** : CIC1=CC=CC=C1C=CC=C1C(=0)NN(C1=0)C1=CC=CC=C1

Storage : (-20°C)

Stability : ≥ 2 years

Reference :

1. Nishikimi A, et al. Blockade of inflammatory responses by a small-molecule inhibitor of the Rac activator DOCK2. Chem Biol. 2012 Apr 20;19(4):488-97.