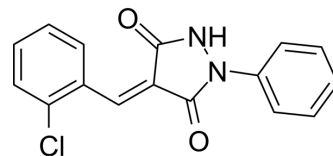


## DOCK2-IN-1

<b>Cat. No.:</b>	HY-153128		
<b>CAS No.:</b>	4590-86-7		
<b>Molecular Formula:</b>	C <sub>16</sub> H <sub>11</sub> ClN <sub>2</sub> O <sub>2</sub>		
<b>Molecular Weight:</b>	298.72		
<b>Target:</b>	DOCK2		
<b>Pathway:</b>	Immunology/Inflammation		
<b>Storage:</b>	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : 125 mg/mL (418.45 mM; Need ultrasonic)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	3.3476 mL	16.7381 mL	33.4762 mL
	5 mM	0.6695 mL	3.3476 mL	6.6952 mL
	10 mM	0.3348 mL	1.6738 mL	3.3476 mL

Please refer to the solubility information to select the appropriate solvent.

### BIOLOGICAL ACTIVITY

#### Description

DOCK2-IN-1 (compound 3), a CPYPP (HY-110100) analogue, is an inhibitor of DOCK2 as well (IC<sub>50</sub>=19.1 μM). DOCK2-IN-1 binds to DOCK2 DHR-2 domain in a reversible manner to inhibits its catalytic activity. DOCK2-IN-1 blocks the activation of both chemokine receptor- and antigen receptor-mediated Rac in lymphocytes. DOCK2-IN-1 significantly suppresses chemotactic response and T cell activation<sup>[1]</sup>.

#### IC<sub>50</sub> & Target

DOCK2

### REFERENCES

[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.

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

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