Phox-I2

Cat. No.: HY-119576

CAS No.: 353495-22-4

Molecular Formula: $C_{18}H_{15}N_3O_4$

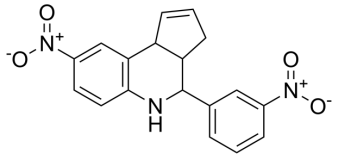
Molecular Weight: 337.33

Target: NADPH Oxidase; Reactive Oxygen Species

Pathway: Metabolic Enzyme/Protease; Immunology/Inflammation; NF-κB

Storage:

Powder	-20°C	3 years
	4°C	2 years
In solvent	-80°C	6 months
	-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 250 mg/mL (741.11 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	2.9645 mL	14.8223 mL	29.6446 mL
	5 mM	0.5929 mL	2.9645 mL	5.9289 mL
	10 mM	0.2964 mL	1.4822 mL	2.9645 mL

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

BIOLOGICAL ACTIVITY

Description

Phox-I2 is a selective inhibitor of $p67^{phox}$-Rac1 interaction, binds to $p67^{phox}$ with high affinity with a K_d of ~150 nM. Phox-I2 is a NADPH oxidase 2 (NOX2) inhibitor and inhibits reactive oxygen species (ROS) production[1].

IC_{50} & Target

Kd: 150 nM ($p67^{phox}$)[1]

In Vitro

Phox-I2 is effective in inhibiting NOX2-mediated superoxide production dose-dependently in dHL-60 cells and primary human neutrophils without detectable toxicity[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Emily E Bosco, et al. Rational design of small molecule inhibitors targeting the Rac GTPase-p67(phox) signaling axis in inflammation. Chem Biol. 2012 Feb 24;19(2):228-42.

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

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com
Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA