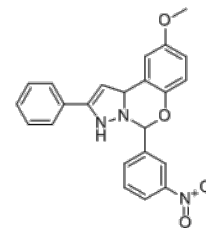


**Product Name** : Phox-I2  
**Cat. No.** : PC-49776  
**CAS No.** : 353495-22-4  
**Molecular Formula** : C<sub>18</sub>H<sub>15</sub>N<sub>3</sub>O<sub>4</sub>  
**Molecular Weight** : 337.34  
**Target** : Small GTPase  
**Solubility** : 10 mM in DMSO



## Biological Activity

Phox-I2 is a specific small molecule inhibitor of **Rac1-p67phox** interaction, binds to the Rac1 interactive site of p67phox specifically (K<sub>i</sub>=150 nM) and interferes with Rac1-GTP interaction with p67phox.

Phox-I2 is active in suppressing ROS production in both human and murine neutrophils.

Phox-I2 is effective in inhibiting NOX2-mediated superoxide production dose-dependently in human and murine neutrophils without detectable toxicity.

Phox-I2 inhibited collagen-induced platelet aggregation without affecting the tail bleeding time, inhibited in vivo platelet adhesion/accumulation at the laser injury sites on the saphenous vein without affecting the time for complete cessation of blood loss.

## References

Emily E Bosco, et al. *Chem Biol*. 2012 Feb 24;19(2):228-42.

H Akbar, et al. *J Thromb Haemost*. 2018 Oct;16(10):2083-2096.

**Caution: Product has not been fully validated for medical applications. Lab Use Only!**

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