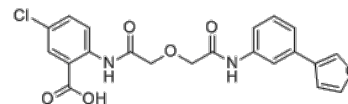


**Product Name** : TM5441  
**Cat. No.** : PC-21332  
**CAS No.** : 1190221-43-2  
**Molecular Formula** : C<sub>21</sub>H<sub>17</sub>ClN<sub>2</sub>O<sub>6</sub>  
**Molecular Weight** : 428.83  
**Target** : Plasminogen Activator Inhibitor-1 (PAI-1)  
**Solubility** : 10 mM in DMSO



## Biological Activity

TM5441 is a specific, orally active, small molecule inhibitor of plasminogen activator inhibitor 1 (PAI-1, Serpin E1), TM5441 is as effective as complete deficiency of PAI-1 in protecting against L-NAME-induced pathologies.

TM5441 does not inhibit other SERPINS such as antithrombin III and  $\alpha$ 2-antiplasmin.

TM5441 reduces cardiac hypertrophy derived from L-NAME treatment and prevents the development of periaortic fibrosis.

TM5441 protects against L-NAME-induced vascular senescence in vivo.

## References

Boe AE, et al. Circulation. 2013 Nov 19;128(21):2318-24.

Eren M, et al. Proc Natl Acad Sci U S A. 2014 May 13;111(19):7090-5.

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

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