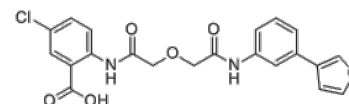


**Product Name** : TM-5441  
**Cat. No.** : PC-60845  
**CAS No.** : 1190221-43-2  
**Molecular Formula** : C<sub>21</sub>H<sub>17</sub>ClN<sub>2</sub>O<sub>6</sub>  
**Molecular Weight** : 428.825  
**Target** : Plasminogen Activator Inhibitor-1 (PAI-1)  
**Solubility** : 10 mM in DMSO



## Biological Activity

TM-5441 is a novel potent, orally active **PAI-1** (plasminogen activator inhibitor-1) inhibitor that attenuates L-NAME-induced hypertension and vascular senescence in mice.

TM-5441 does not inhibit other SERPINS such as antithrombin III and  $\alpha$ 2-antiplasmin.

TM-5441 decreases cell viability in several human cancer cell lines with IC<sub>50</sub> of 3.58-60.3  $\mu$ M and induces intrinsic apoptosis at 50  $\mu$ M.

TM-5441 disrupts tumor vasculature in HT1080 and HCT116 xenotransplanted mice (20 mg/kg daily).

TM-5441 also protects against high-fat diet-induced obesity and adipocyte injury in mice.

## References

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

Placencio VR, et al. *PLoS One*. 2015 Jul 24;10(7):e0133786.

Piao L, et al. *Br J Pharmacol*. 2016 Sep;173(17):2622-32.

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

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