

TM5007

## Chemical Properties

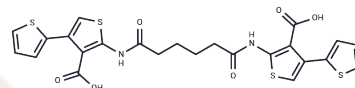
CAS No. : 342595-05-5

Formula: C<sub>24</sub>H<sub>20</sub>N<sub>2</sub>O<sub>6</sub>S<sub>4</sub>

Molecular Weight: 560.69

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.



## Biological Description

Description	TM5007 is a potent inhibitor of plasminogen activator inhibitor-1 (PAI-1; IC <sub>50</sub> of 29 μM).
Targets(IC <sub>50</sub> )	PAI-1
In vivo	In vivo the most effective molecule (TM5007) inhibits coagulation in 2 models: a rat arteriovenous (AV) shunt model and a mouse model of ferric chloride-induced testicular artery thrombosis. It also prevents the fibrotic process initiated by bleomycin in mouse lung[1].

## Solubility Information

Solubility	DMSO: Slightly soluble, ( $< 1$ mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.7835 mL	8.9176 mL	17.8352 mL
5 mM	0.3567 mL	1.7835 mL	3.567 mL
10 mM	0.1784 mL	0.8918 mL	1.7835 mL
50 mM	0.0357 mL	0.1784 mL	0.3567 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Izuhara Y , Takahashi S , Nangaku M , et al. Inhibition of Plasminogen Activator Inhibitor-1 Its Mechanism and Effectiveness on Coagulation and Fibrosis[J]. Arteriosclerosis Thrombosis and Vascular Biology, 2008, 28(4):672-677.

Izuhara Y , Yamaoka N , Kodama H , et al. A novel inhibitor of plasminogen activator inhibitor-1 provides antithrombotic benefits devoid of bleeding effect in nonhuman primates[J]. Journal of Cerebral Blood Flow & Metabolism Official Journal of the International Society of Cerebral Blood Flow & Metabolism, 2010, 30(5):904.

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