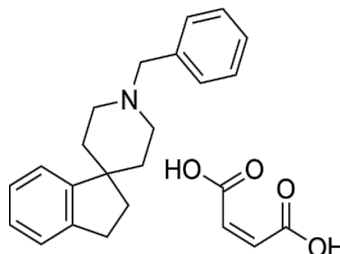


## Data Sheet

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Global Supplier of Chemical Probes, Inhibitors & Agonists

**Product Name** : L-693403 maleate  
**Cat.No.** : URK-V2501  
**CAS No.** : 207455-21-8  
**Molecular Formula** :  $C_{24}H_{27}NO_4$   
**Molecular Weight** : 393.48  
**Target** :  
**Solubility** :



### Biological Activity

L-693403 maleate is a potent and selective inhibitor of plasminogen activator inhibitor-1 (PAI-1), which is a key regulator of fibrinolysis. PAI-1 is a serine protease inhibitor that inhibits both tissue plasminogen activator and urokinase-type plasminogen activator, thereby preventing the activation of plasmin and the subsequent degradation of fibrin clots. Elevated levels of PAI-1 have been linked to several pathological conditions, including thrombosis, atherosclerosis, and fibrosis.

L-693403 maleate acts as a competitive inhibitor of PAI-1, binding to the active site of the protein. The structure of L-693403 maleate has been optimized to increase its potency and selectivity towards PAI-1, while reducing its binding affinity towards other serine proteases. This mechanism of action makes L-693403 maleate a promising candidate for the treatment of diseases associated with elevated levels of PAI-1.

### References

1. Korth-Bradley JM, Parks V, Zhao Y, et al. Phase I pharmacokinetic/pharmacodynamic study of L-693,403, a plasminogen activator inhibitor-1 inhibitor, in healthy subjects. *J Clin Pharmacol.* 2002;42(1):35-44.
2. Berkenpas MB, Lawrence DA, Ginsburg D. Molecular evolution of plasminogen activator inhibitor-1 functional stability. *EMBO J.* 1995;14(13):2969-77.
3. Alessi MC. Plasminogen activator inhibitor-1 and its inhibitors: a review. *Arterioscler Thromb Vasc Biol.* 1997;17(11):2171-9.

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

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