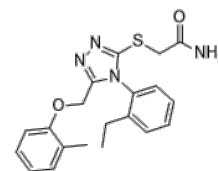


**Product Name** : A2ti-1  
**Cat. No.** : PC-27105  
**CAS No.** : 570390-00-0  
**Molecular Formula** : C<sub>20</sub>H<sub>22</sub>N<sub>4</sub>O<sub>2</sub>S  
**Molecular Weight** : 382.48  
**Target** : Other Targets  
**Solubility** : 10 mM in DMSO



CAS: 570390-00-0

## Biological Activity

A2ti-1 (S100A10-ANXA2 heterotetramer inhibitor-1) is a specific small molecule **Annexin A2 (ANXA2)** inhibitor, inhibits **Annexin A2-S100A10** protein interaction with IC<sub>50</sub> of 24 μM (Annexin A2/S100A10 heterotetramer (A2t)).

A2ti-1 remarkably inhibits Pseudorabies virus (PRV) propagation in vitro and protect mice from PRV infection in vivo.

A2ti-1 significantly reduces Porcine circovirus type 2 (PCV2) replication in host cells.

A2ti-1 reduced α-SMA protein levels and expression of profibrotic genes, indicating direct suppression of stellate cell activation in human hepatic stellate cells.

A2ti-1 significantly reduced fibrosis by lowering α-SMA levels, collagen deposition, and profibrotic gene expression, without altering steatosis in human multilineage liver organoids.

A2ti-1 inhibited hepatic stellate cell activation through a SMAD-independent mechanism involving reduced STAT3 phosphorylation.

## References

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Weng M, et al. *J Virol*. 2023 Mar 30;97(3):e0154522.

Türkal M, et al. *EMBO Mol Med*. 2026 Jun 10. doi: 10.1038/s44321-026-00464-y.

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

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