

**NYU**

SERPINB2 deficient cell lines for enhanced AdV manufacturing purposes

These cell lines lack SERPINB2 (Serine Protease Inhibitor) which yields increased titers during manufacturing processes. Infectious particle yield is a major bottleneck in the production of adenovirus as gene vectors in oncology and vaccines.

Researchers at NYU have discovered that human Plasminogen activator inhibitor 2 (PAI-2, encoded by SERPINB2) inhibits human adenovirus protease (AVP). In unpublished work, they have shown that AVP directly binds to PAI-2 and that over expression of PAI-2 reduces adenovirus titers over 200-fold. SERPINB2 was not known as a restriction factor for infectious adenovirus particle production previously.

References

1. Rodriguez Galvan et al. , <https://pubmed.ncbi.nlm.nih.gov/36415456/>

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