

## ATN-161 acetate

### Chemical Properties

CAS No. : 904763-58-2

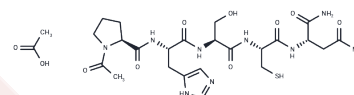
Formula: C<sub>25</sub>H<sub>39</sub>N<sub>9</sub>O<sub>10</sub>S

Molecular Weight: 657.7

Keep away from moisture, Store at low temperature

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	ATN-161 acetate, a pentapeptide compound derived from the synergistic region of fibronectin, is a non-competitive integrin- $\alpha$ 5 antagonist with antitumor activity that attenuates the pathology of caerulein-induced acute pancreatitis.
Targets(IC50)	Integrin
In vitro	The treatment regimen of ATN-161 acetate in combination with 5-FU was able to significantly inhibit the proliferation of tumor cells compared to control and monotherapy. In addition, the combination treatment significantly increased the proportion of TUNEL-positive tumor cells, while monotherapy failed to increase TUNEL-positive cells. ATN-161 acetate significantly reduced the number of cancer cells after 48 hours of culture (21% reduction) compared to the control group. [1] ATN-161 acetate prevented vascular endothelial growth factor-induced migration and capillary formation of hCECs, but had no significant effect on proliferation. Starting at 100 nM, ATN-161 acetate decreased the number of cells migrating in response to VEGF in a dose-dependent manner (compared to the VEGF group). [2]
In vivo	Injection of ATN-161 acetate after laser photocoagulation reduced choroidal neovascularization (CNV) leakage and neovascularization with an inhibitory effect comparable to that of AF564. [2]

### Preparing Stock Solutions

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	1mg	5mg	10mg
1 mM	1.5205 mL	7.6023 mL	15.2045 mL
5 mM	0.3041 mL	1.5205 mL	3.0409 mL
10 mM	0.152 mL	0.7602 mL	1.5205 mL
50 mM	0.0304 mL	0.152 mL	0.3041 mL

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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

1. Stoeltzing O, et al. Inhibition of integrin alpha5beta1 function with a small peptide (ATN-161) plus continuous 5-FU infusion reduces colorectal liver metastases and improves survival in mice. *Int J Cancer*. 2003 Apr 20;104(4):496-503.

Wang W, et al. The antiangiogenic effects of integrin alpha5beta1 inhibitor (ATN-161) in vitro and in vivo. *Invest Ophthalmol Vis Sci*. 2011 Sep 14;52(10):7213-20.

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