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- Trockeneiszuschlag
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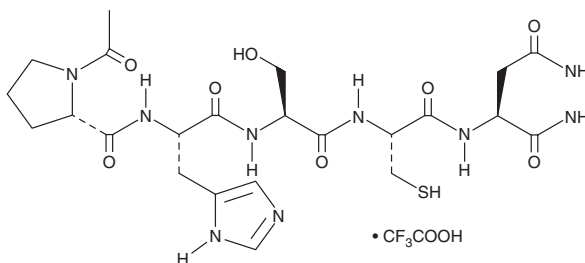
PRODUCT INFORMATION



ATN-161 (trifluoroacetate salt)

Item No. 34056

CAS Registry No.: 904763-27-5
Formal Name: 1-acetyl-L-prolyl-L-histidyl-L-seryl-L-cysteiny-L-aspartamide, monotrifluoroacetate salt
Synonyms: Ac-PHSCN-NH₂, PHSCN Peptide
MF: C₂₃H₃₅N₉O₈S • CF₃COOH
FW: 711.7
Purity: ≥95%
Supplied as: A crystalline solid
Storage: -20°C
Stability: ≥4 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

ATN-161 (trifluoroacetate salt) is supplied as a crystalline solid. Aqueous solutions of ATN-161 (trifluoroacetate salt) can be prepared by directly dissolving the crystalline solid in aqueous buffers. The solubility of ATN-161 (trifluoroacetate salt) in PBS (pH 7.2) is approximately 1 mg/ml. We do not recommend storing the aqueous solution for more than one day.

Description

ATN-161 is a peptide derived from fibronectin and an integrin $\alpha\text{V}\beta 3$ and $\alpha\text{V}\beta 5$ antagonist.¹ It binds to $\alpha\text{V}\beta 3$ and $\alpha\text{V}\beta 5$ receptors (K_d s = 0.69 and 1 μM , respectively) in MDA-MB-231 breast cancer cells, as well as inhibits the interaction between $\alpha\text{V}\beta 5$ and human angiotensin-converting enzyme 2 (ACE2) or severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) spike protein in a concentration-dependent manner in cell-free assays.^{1,2} ATN-161 reduces viral titers in Vero E6 cells infected with SARS-CoV-2 (EC_{50} = 3.16 μM).² It inhibits VEGF-induced migration and capillary tube formation of primary human choroidal endothelial cells when used at a concentration of 0.1 μM .³ ATN-161 (1 mg/kg) reduces tumor growth and metastasis in an MDA-MB-231 mouse xenograft model and infarct volume and edema in a mouse model of ischemic stroke induced by middle cerebral artery occlusion (MCAO).^{1,4}

References

1. Khalili, P., Arakelian, A., Chen, G., *et al.* A non-RGD-based integrin binding peptide (ATN-161) blocks breast cancer growth and metastasis *in vivo*. *Mol. Cancer Ther.* **5(9)**, 2271-2280 (2006).
2. Beddingfield, B.J., Iwanaga, N., Chapagain, P.P., *et al.* The integrin binding peptide, ATN-161, as a novel therapy for SARS-CoV-2 infection. *JACC Basic Transl. Sci.* **6(1)**, 1-8 (2021).
3. Wang, W., Wang, F., Lu, F., *et al.* The antiangiogenic effects of integrin $\alpha 5\beta 1$ inhibitor (ATN-161) in vitro and in vivo. *Invest. Ophthalmol. Vis. Sci.* **52(10)**, 7213-7220 (2011).
4. Edwards, D.N., Salmeron, K., Lukins, D.E., *et al.* Integrin $\alpha 5\beta 1$ inhibition by ATN-161 reduces neuroinflammation and is neuroprotective in ischemic stroke. *J. Cereb. Blood Flow Metab.* **40(8)**, 1695-1708 (2020).

WARNING

THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

WARRANTY AND LIMITATION OF REMEDY

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