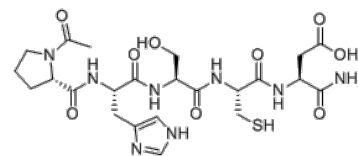


Product Name : ATN-161
Cat. No. : PC-21535
CAS No. : 262438-43-7
Molecular Formula : C₂₃H₃₄N₈O₉S
Molecular Weight : 598.63
Target : Integrin
Solubility : 10 mM in DMSO



Biological Activity

ATN-161 (Ac-PHSCN-NH₂) is a small peptide inhibitor of integrin alpha5 beta1 ($\alpha 5 \beta 1$) and alpha v beta 3 ($\alpha v \beta 3$) with binding K_d of 1.0 and 0.6 μ M, respectively, inhibits breast cancer growth and metastasis.

ATN-161 forms a disulfide bond with its integrin target.

ATN-161 (20 μ M) significantly inhibits MAPK phosphorylation with maximal effects in MDA-MB-231 cells.

ATN-161 (1 mg/kg) inhibits MDA-MB-231 tumor growth in vivo, causes a significant dose-dependent decrease in tumor volume and either completely blocked or caused a marked decrease in the incidence and number of skeletal as well as soft tissue metastases.

References

Cianfrocca ME, et al. Br J Cancer. 2006 Jun 5;94(11):1621-6.

Livant DL, et al. Cancer Res. 2000 Jan 15;60(2):309-20.

Khalili P, et al. Mol Cancer Ther. 2006 Sep;5(9):2271-80.

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

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