

HSDVHK-NH2 acetate

Chemical Properties

CAS No. :

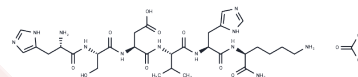
Formula: C32H52N12O11

Molecular Weight: 780.39

Keep away from moisture

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	P11 acetate is an integrin $\alpha\beta 3$ -vitronectin interaction antagonist($IC_{50} = 2.74$ nM).
Targets(IC_{50})	Integrin
In vitro	P11 acetate showed a strong antagonism against $\alpha v\beta 3$ -GRGDSP interaction($IC_{50} = 25.72$ nM)[1]. P11 acetate inhibited the HUVEC proliferation due to the induction of HUVEC cell death through caspases activations and its mechanism is related with increased p53 expression[2].P11 acetate significantly inhibited bFGF-induced cell migration compared to the PBS control group[3].

Solubility Information

Solubility	DMSO: 7.24 mg/mL (9.28 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.2814 mL	6.4071 mL	12.8141 mL
5 mM	0.2563 mL	1.2814 mL	2.5628 mL
10 mM	0.1281 mL	0.6407 mL	1.2814 mL
50 mM	0.0256 mL	0.1281 mL	0.2563 mL

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

Youngjin Choi, et al. Site-specific inhibition of integrin alpha v beta 3-vitronectin association by a ser-asp-val sequence through an Arg-Gly-Asp-binding site of the integrin. *Proteomics*. 2010 Jan;10(1):72-80.

Ji-Young Bang, et al. Pharmacoproteomic analysis of a novel cell-permeable peptide inhibitor of tumor-induced angiogenesis. *Mol Cell Proteomics*. 2011 Aug;10(8):M110.005264.

Yoonsuk Lee, et al. High-throughput screening of novel peptide inhibitors of an integrin receptor from the hexapeptide library by using a protein microarray chip. *J Biomol Screen*. 2004 Dec;9(8):687-94.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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