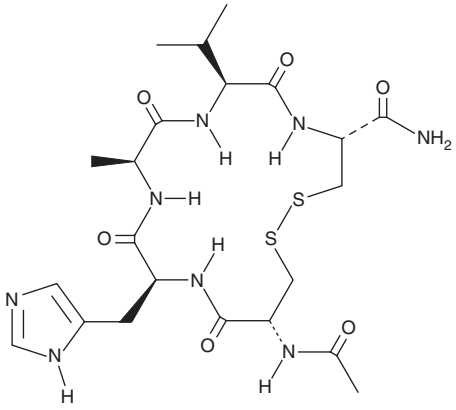
PRODUCT INFORMATION

ADH-1

Item No. 29981



CAS Registry No.:	229971-81-7
Formal Name:	N-acetyl-L-cysteinyl-L-histidyl-L-alanyl-L-valyl-L-cysteinamide, cyclic (1→5)-disulfide
Synonym:	N-Ac-CHAVC-NH_2
MF:	$C_{22}H_{34}N_8O_6S_2$
FW:	570.7
Purity:	≥98%
Supplied as:	A solid
Storage:	-20°C
Stability:	≥2 years

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

Laboratory Procedures

ADH-1 is supplied as a solid. A stock solution may be made by dissolving the ADH-1 in the solvent of choice, which should be purged with an inert gas. ADH-1 is soluble in DMSO and aqueous acid (5% HCl in H_2O).

Description

ADH-1 is a cyclic peptide antagonist of N-cadherin.[1] It inhibits neurite outgrowth in cerebellar neurons cultured on N-cadherin-expressing 3T3 cell monolayers (IC_{50} = 0.323 mM). ADH-1 (0.2 mg/ml) inhibits cell scattering and motility induced by collagen I in Capan-1 cells and wild-type and N-cadherin-overexpressing BxPC-3 cells.[2] It induces apoptosis in N-cadherin-overexpressing, but not knockdown, BxPC-3 cells when used at a concentration of 1 mg/ml. ADH-1 (50 mg/kg) reduces tumor growth in an N-cadherin-overexpressing BxPC-3 mouse xenograft model.

References

1. Williams, E., Williams, G., Gour, B.J., *et al.* A novel family of cyclic peptide antagonists suggests that N-cadherin specificity is determined by amino acids that flank the HAV motif. *J. Biol. Chem.* **275(6)**, 4007-4012 (2000).
2. Shintani, Y., Fukumoto, Y., Chaika, N., *et al.* ADH-1 suppresses N-cadherin-dependent pancreatic cancer progression. *Int. J. Cancer* **122(1)**, 71-77 (2008).

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