

Analytical Data

Code: 4337-s

Compound: β -Defensin-1 (Human)
Asp-His-Tyr-Asn-Cys-Val-Ser-Ser-Gly-Gly-Gln-Cys-Leu-Tyr-
Ser-Ala-Cys-Pro-Ile-Phe-Thr-Lys-Ile-Gln-Gly-Thr-Cys-Tyr-
Arg-Gly-Lys-Ala-Lys-Cys-Cys-Lys
(Disulfide bonds: 5-34, 12-27, 17-35)

(M. W. 3928.50) C₁₆₇ H₂₅₆ N₄₈ O₅₀ S₆

Appearance : White amorphous powder

*** Specific Optical Rotation**

$[\alpha]_D^{20}$ -85.3 ° (c* 0.11, 1% AcOH)

* c value was calculated from the net peptide weight.

*** Elemental Analysis**

Found C, 46.67 ; H, 6.72 ; N, 14.56 %

*** Amino Acid Analysis**

Acid Hydrolysis: 6N HCl, 110°C, 22h.

Asp (2)2.07	Thr (2)1.91	Ser (3)2.64	Glu (2)1.98
Pro (1)0.96	Gly (4)3.93	Ala (2)1.98	1/2Cystine (6)5.29
Val (1)0.97	Ile (2)1.91	Leu (1)0.99	Tyr (3)2.80
Phe (1)0.98	His (1)1.01	Lys (4)3.92	NH ₃ (3)3.87
Arg (1)1.00			

Mass Spectral Analysis : Exhibits correct MW

Sample : 4337-s β -Defensin-1 (Human)
Sample Size : 1.0 μ L (0.11 mg/ 22 μ L-1% AcOH)
Column : YMC Pack ODS-A (4.6 mm I.D. \times 150 mm) #0415227716 + G (4 \times 10 mm)
Eluent : 0.1 M NaCl (pH 2.4)
Gradient : Acetonitrile 10% to 60% [25 min.]
Flow Rate : 1.0 mL/min, Press. : 170 kg/cm , Temp. : 25°C
Detection : CH.1 210 nm

