

Analytical Data

Code: 4415-s

Compound: α -Defensin-5 (Human)

Ala-Thr-Cys-Tyr-Cys-Arg-Thr-Gly-Arg-Cys-Ala-Thr-Arg-Glu-
Ser-Leu-Ser-Gly-Val-Cys-Glu-Ile-Ser-Gly-Arg-Leu-Tyr-Arg-
Leu-Cys-Cys-Arg

(Disulfide bonds: 3-31, 5-20, 10-30)

(M. W. 3582.13) C₁₄₄ H₂₃₈ N₅₀ O₄₅ S₆

Appearance : White amorphous powder

*** Specific Optical Rotation**

$[\alpha]_D^{25}$ -138.4° (c* 0.13, 1% AcOH)

* c value was calculated from the net peptide weight.

*** Elemental Analysis**

Found C, 44.51 ; H, 6.83 ; N, 16.82 %

*** Amino Acid Analysis**

Acid Hydrolysis: 6N HCl, 110°C, 22h.

Thr (3)2.77	Ser (3)2.62	Glu (2)2.01	Gly (3)2.96
Ala (2)2.00	1/2Cystine (6)5.50	Val (1)0.97	Ile (1)0.97
Leu (3)3.00	Tyr (2)1.75	Arg (6)5.92	

Mass Spectral Analysis : Exhibits correct MW

Sample : 4415-s α -Defensin-5 (Human)
Sample Size : 1.6 μ L (0.11 mg/ 22 μ L- 1% AcOH)
Column : YMC Pack ODS-A S-3 μ m (4.6 mm I.D. \times 150 mm) #0415227716(W) + G(4 \times 10mm)
Eluent : 0.1 M NaCl (pH 2.4)
Gradient : Acetonitrile 10% to 60% [25 min.]
Flow Rate : 1.0 mL/min. , ; Press. : 172 kg/cm² , ; Temp. : 25 $^{\circ}$ C
Detection : CH.1 210 nm

