

Analytical Data

Code: 4472-s

Compound: APETx2

Gly-Thr-Ala-Cys-Ser-Cys-Gly-Asn-Ser-Lys-Gly-Ile-Tyr-Trp-
Phe-Tyr-Arg-Pro-Ser-Cys-Pro-Thr-Asp-Arg-Gly-Tyr-Thr-Gly-
Ser-Cys-Arg-Tyr-Phe-Leu-Gly-Thr-Cys-Cys-Thr-Pro-Ala-Asp
(Disulfide bonds: 4-37, 6-30, 20-38)

(M. W. 4561.04) C₁₉₆ H₂₈₀ N₅₄ O₆₁ S₆

Appearance : White amorphous powder

*** Specific Optical Rotation**

$[\alpha]_D^{20}$ -77.0 ° (c* 0.1, H₂O)

* c value was calculated from the net peptide weight.

*** Elemental Analysis**

Found C, 47.15 ; H, 6.41 ; N, 14.43 %

*** Amino Acid Analysis**

Acid Hydrolysis: 6N HCl with phenol, 110 °C, 22h. * with thioglycolic acid

Asp (3)3.04	Thr (5)4.84	Ser (4)3.69	Gly (6)6.06
Ala (2)2.07	Ile (1)0.96	Leu (1)1.00	Tyr (4)3.89
Phe (2)2.02	Lys (1)1.02	NH ₃ (1)2.12	Trp (1)0.83*
Arg (3)3.07	Pro (3)2.97	Cys (6)5.88*	

Mass Spectral Analysis : Exhibits correct MW

Sample : 4472-s APETx2
Sample Size : 0.8 μ L (0.11 mg/ 22 μ L-1% AcOH)
Column : YMC Pack ODS-A (4.6 mm I.D. \times 150 mm) #0415227715 + G (4 \times 10 mm)
Eluent : 0.1M NaCl (pH 2.4)
Gradient : Acetonitrile 10% to 60% [25 min.]
Flow Rate : 1.0 mL/min. , ; Press. : 105 kg/cm² , ; Temp. : 50°C
Detection : CH.1 210 nm

