

Analytical Data

Code: 4235-s

Compound: Iberiotoxin (IbTX)

Pyr-Phe-Thr-Asp-Val-Asp-Cys-Ser-Val-Ser-Lys-Glu-Cys-
Trp-Ser-Val-Cys-Lys-Asp-Leu-Phe-Gly-Val-Asp-Arg-Gly-
Lys-Cys-Met-Gly-Lys-Lys-Cys-Arg-Cys-Tyr-Gln
[Disulfide bonds: 7-28, 13-33, 17-35]

(M. W. 4230.85) C₁₇₉ H₂₇₄ N₅₀ O₅₅ S₇

Appearance : White amorphous powder

*** Specific Optical Rotation**

$[\alpha]_D^{20}$ -84.7° (c* 0.11, 1% AcOH)

* c value was calculated from the net peptide weight.

*** Elemental Analysis**

Found C, 47.09; H, 6.64; N, 14.56 %

*** Amino Acid Analysis**

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

Asp (4)4.03	Thr (1)0.96	Ser (3)2.41	Glu (3)3.02
Gly (3)2.96	Cys (6)5.51	Val (4)3.95	Met (1)1.00
Leu (1)1.01	Tyr (1)1.00	Phe (2)2.00	Lys (5)4.90
NH ₃ (1)1.48	Trp (1)0.91	Arg (2)2.02	

Mass Spectral Analysis : Exhibits correct MW

Sample : 4235-s Iberiotoxin (IbTX)
Sample Size : 0.8 μ L (0.12 mg/ 24 μ L- 1% AcOH)
Column : YMC Pack ODS-A (4.6 mm I.D. $\times$ 150 mm) #0415227716 + G (4 $\times$ 10 mm)
Eluent : 0.1M NaCl (pH 2.4)
Gradient : Acetonitrile 10% to 60% [25 min.]
Flow Rate : 1.0 mL/min. , ; Press. : 171 kg/cm² , ; Temp. : 25°C
Detection : CH.1 210 nm

