株式会社ペプチド研究所
〒567-0085 大阪府茨木市彩都あさぎ 7 丁目 2 番 9 号
Phone (072)643-4411 Fax (072)643-4422
PEPTIDE INSTITUTE, INC.
7-2-9 SAITO-ASAGI, IBARAKI-SHI, OSAKA 567-0085, JAPAN
Phone 81-72-643-4411 Fax 81-72-643-4422

Analytical Data

Code: **4433-s**

Compound: Guangxitoxin-1E
(Trifluoroacetate Form)
Glu-Gly-Glu-Cys-Gly-Gly-Phe-Trp-Trp-Lys-Cys-Gly-Ser-Gly-Lys-Pro-Ala-Cys-Cys-Pro-Lys-Tyr-Val-Cys-Ser-Pro-Lys-Trp-Gly-Leu-Cys-Asn-Phe-Pro-Met-Pro
(Disulfide bonds:4-19,11-24 and 18-31)
(M.W. 3948.60) $C_{178}H_{248}N_{44}O_{45}S_7$

Appearance : White amorphous powder

*** Specific Optical Rotation**

$[\alpha]_D^{20}$ -45.8 ° (c 0.15, H2O)

*** Amino Acid Analysis**

Acid Hydrolysis: 6N HCl, 110℃, 22h. * with thioglycolic acid

Asp (1)1.01	Ser (2)1.75	Glu (2)1.96	Pro (5)4.89
Cys (6)5.85*	Gly (6)5.93	Ala (1)1.00	Val (1)0.99
Met (1)0.97	Leu (1)1.00	Tyr (1)1.00	Phe (2)2.00
Lys (4)3.95	NH_3 (1)1.48	Trp (3)2.33*	

Mass Spectral Analysis : Exhibits correct MW

Sample : 4433-s Guangxitoxin-1E
Sample Size : 0.8 μL (0.1 mg/ 20 μL-H2O)
Column : YMC Pack ODS-A (4.6 mm I.D. × 150 mm) #0415227716 + G(4 × 10 mm)
Eluent : 0.1M NaCl (pH 2.4)
Gradient : Acetonitrile 10% to 60% [25 min.]
Flow Rate : 1.0 mL/min. , ;Press. : 170 kg/cm2 , ;Temp. : 25℃
Detection : CH.1 210 nm