

Analytical Data

Code: 4371-v

Compound: Urotensin II (Rat)

Pyr-His-Gly-Thr-Ala-Pro-Glu-Cys-Phe-Trp-Lys-Tyr-Cys-Ile

(M. W. 1663.87) $C_{77}H_{102}N_{18}O_{20}S_2$

Appearance : White amorphous powder

*** Specific Optical Rotation**

$[\alpha]_D^{20}$ -117.0° (c* 0.13, 1% AcOH)

* c value was calculated from the net peptide weight.

*** Elemental Analysis**

Found C, 50.19; H, 6.67; N, 13.28 %

*** Amino Acid Analysis**

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

Thr (1)0.98	Glu (2)2.03	Pro (1)1.01	Gly (1)1.01
Ala (1)1.01	Ile (1)0.99	Tyr (1)1.00	Phe (1)1.01
His (1)0.99	Lys (1)1.00	Trp (1)0.87	Cys (2)1.80

Thin Layer Chromatography : Single spot

Cellulose Layer

Application : 50 μ g

Solvent System : n-BuOH:AcOH:H₂O:pyridine=15:3:12:10
n-BuOH:AcOH:H₂O=4:1:5 (upper phase)

Located by ninhydrin and Pauly reagent

Sample : 4371-v Urotensin II (Rat)
Sample Size : 0.2 μ L (0.55 mg/ 55 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 : 0.1M NaCl (pH 2.4)
Gradient : Acetonitrile 20% to 60% [25 min.]
Flow Rate : 1.0 mL/min. , ; Press. : 177 kg/cm² , ; Temp. : 25°C
Detection : CH.1 210 nm

