

Analytical Data

Code: 4461-v**Compound:** RFamide-Related Peptide-3 (Human)
Val-Pro-Asn-Leu-Pro-Gln-Arg-Phe-NH₂(M. W. 969.14) C₄₅ H₇₂ N₁₄ O₁₀

Appearance : White amorphous powder*** Specific Optical Rotation** $[\alpha]_D^{20} -133.7^\circ$ (c* 0.11, 1% AcOH)

* c value was calculated from the net peptide weight.

*** Elemental Analysis**

Found C, 51.23 ; H, 7.25 ; N, 16.75 %

*** Amino Acid Analysis**

Acid Hydrolysis: 6N HCl, 110°C, 22h.

Asp (1)1.00	Glu (1)0.98	Pro (2)1.97	Val (1)0.99
Leu (1)1.00	Phe (1)1.00	NH ₃ (3)3.05	Arg (1)1.00

Thin Layer Chromatography : Single spot

Cellulose Layer

Application : 50 μg

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

Located by ninhydrin reagent

Mass Spectral Analysis : Exhibits correct MW

Sample : 4461-v RF amide-Related Peptide-3 (Human)
Sample Size : 0.6 μ L (0.56 mg/ 56 μ L- H₂O)
Column : YMC Pack ODS-A S-3 μ m (4.6 mm I.D. $\times$ 150 mm) #0415227716(W) + G (4 $\times$ 10 mm)
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°C
Detection : CH.1 210 nm

