

Analytical Data

Code: 4462-v

Compound: RFamide-Related Peptide-3 (Rat)

Ala-Asn-Met-Glu-Ala-Gly-Thr-Met-Ser-His-Phe-Pro-Ser-Leu-
Pro-Gln-Arg-Phe-NH₂

(M. W. 2020.29) C₈₈ H₁₃₄ N₂₆ O₂₅ S₂

Appearance : White amorphous powder

*** Specific Optical Rotation**

$[\alpha]_D^{20}$ -114.0° (c* 0.09, 1% AcOH)

* c value was calculated from the net peptide weight.

*** Elemental Analysis**

Found C, 48.39 ; H, 6.88 ; N, 15.80 %

*** Amino Acid Analysis**

Acid Hydrolysis: 6N HCl, 110°C, 22h.

Asp (1)1.00	Thr (1)0.97	Ser (2)1.75	Glu (2)1.97
Pro (2)1.98	Gly (1)1.01	Ala (2)2.00	Met (2)1.82
Leu (1)1.00	Phe (2)2.00	NH ₃ (3)3.98	His (1)1.00
Arg (1)1.00			

Thin Layer Chromatography : A trace of sulfoxide derivative is detected.

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 and Pauly reagent

Mass Spectral Analysis : Exhibits correct MW

Sample : 4462-v RFamide-Related Peptide-3 (Rat)
Sample Size : 0.5 μ L (0.55 mg/ 55 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

