

Analytical Data

Code: 4302-v

Compound: Adrenomedullin (Human, 22-52)
Thr-Val-Gln-Lys-Leu-Ala-His-Gln-Ile-Tyr-Gln-Phe-Thr-Asp-
Lys-Asp-Lys-Asp-Asn-Val-Ala-Pro-Arg-Ser-Lys-Ile-Ser-Pro-
Gln-Gly-Tyr-NH₂
(M. W. 3575.98) C₁₅₉ H₂₅₂ N₄₆ O₄₈

Appearance : White amorphous powder

*** Specific Optical Rotation**

$[\alpha]_D^{20}$ -112.0° (c* 0.13, 1% AcOH)

* c value was calculated from the net peptide weight.

*** Elemental Analysis**

Found C, 48.48 ; H, 7.46 ; N, 15.17 %

*** Amino Acid Analysis**

Acid Hydrolysis: 6N HCl, 110°C, 22h.

Asp (4) 3.96	Thr (2) 1.89	Ser (2) 1.74	Glu (4) 3.98
Pro (2) 2.00	Gly (1) 0.99	Ala (2) 1.95	Val (2) 1.95
Ile (2) 1.95	Leu (1) 1.01	Tyr (2) 1.95	Phe (1) 1.00
His (1) 1.01	Lys (4) 3.99	NH ₃ (6) 6.19	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 and Pauly reagent

Sample : 4302-v Adrenomedullin(Human, 22-52)
Sample Size : 0.5 μ L (0.54 mg/ 54 μ L-1% AcOH)
Column : YMC Pack ODS-A (4.6 mm I.D. $\times$ 150 mm) #0415227715 + G (4 $\times$ 10 mm)
Eluent : 0.1M NaCl (pH2.4)
Gradient : Acetonitrile 10% to 60% [25 min.]
Flow Rate : 1.0 mL/min. , ; Press. : 162 kg/cm² , ; Temp. : 25°C
Detection : CH.1 210 nm

