

Analytical Data

Code: 4215-v

Compound: PTH-rP (Human, 7-34 Amide)

Leu-Leu-His-Asp-Lys-Gly-Lys-Ser-Ile-Gln-Asp-Leu-Arg-Arg-Arg-
Phe-Phe-Leu-His-His-Leu-Ile-Ala-Glu-Ile-His-Thr-Ala-NH₂

(M. W. 3364.90) C₁₅₃ H₂₄₇ N₄₉ O₃₇

Appearance : White amorphous powder

*** Specific Optical Rotation**

$[\alpha]_D^{20}$ -79.5° (c* 0.16, 1%AcOH)

* c value was calculated from the net peptide weight.

*** Elemental Analysis**

Found C, 51.40 ; H, 7.29 ; N, 18.55 %

*** Amino Acid Analysis**

Acid Hydrolysis: 6N HCl, 110°C, 22h.

Asp (2)2.00	Thr (1)0.97	Ser (1)0.94	Glu (2)1.97
Gly (1)1.01	Ala (2)2.05	Ile (3)2.79	Leu (5)5.08
Phe (2)2.02	His (4)3.86	Lys (2)1.98	
NH ₃ (2)2.34	Arg (3)3.05		

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

Mass Spectral Analysis : Exhibits correct MW

Sample : 4215-v PTH-rP (Human, 7-34 Amide)
Sample Size : 0.6 μ L (0.53 mg/ 53 μ L-1% AcOH)
Column : YMC Pack ODS-A (4.6 mm I.D. $\times$ 150 mm) #0415227716 + G (4 $\times$ 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°C
Detection : CH.1 210 nm

