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Analytical Data

Code: **4086-v**

Compound: Bombesin
Pyr-Gln-Arg-Leu-Gly-Asn-Gln-Trp-Ala-Val-Gly-His-Leu-Met-NH2

(M.W. 1619.85) $C_{71}H_{110}N_{24}O_{18}S$

Appearance : White amorphous powder

*** Specific Optical Rotation**

$[\alpha]_D^{21}$ -68.9 ° (c* 0.22, 1M AcOH)

* c value was calculated from the net peptide weight.

*** Elemental Analysis**

Found C, 49.47 ; H, 7.02 ; N, 17.85 %

*** Amino Acid Analysis**

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

Asp (1)1.00	Glu (3)3.04	Gly (2)1.97	Ala (1)0.99
Val (1)0.97	Met (1)0.94	Leu (2)2.03	His (1)1.00
NH_3 (4)3.71	Trp (1)0.89	Arg (1)0.99	

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

Cellulose Layer
Application : 50μg
Solvent System : n-BuOH:AcOH:H_2O:pyridine=15:3:12:10
n-BuOH:AcOH:H_2O=4:1:5(upper phase)
Located by ninhydrin and Pauly reagent

Mass Spectral Analysis : Exhibits correct MW

Sample : 4086-v Bombesin
Sample Size : 0.4 μL (0.54 mg/ 54 μL- H2O)
Column : YMC Pack ODS-A S-3μm (4.6 mm I.D. × 150 mm) #0415447716(W) + G (4×10 mm)
Eluent : 0.1M NaCl (pH 2.4)
Gradient : Acetonitrile 10% to 60% [25 min.]
Flow Rate : 1.0 mL/min. , ;Press. : 171 kg/cm2 , ;Temp. : 25℃
Detection : CH.1 210 nm