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Analytical Data

Code: **4043**

Compound: Leucine-Enkephalin
Tyr-Gly-Gly-Phe-Leu

(M.W. 555.62) $C_{28}H_{37}N_5O_7$

Appearance : White amorphous powder

Specific Optical Rotation

$[\alpha]_D^{20}$ +27.5 ° (c* 0.81, 50% AcOH)

* c value was calculated from the net peptide weight.

Elemental Analysis

Found C, 56.81 ; H, 6.86 ; N, 11.49 %

Amino Acid Analysis

Acid Hydrolysis: 6N HCl, 110℃, 22h.

Gly (2)1.99	Leu (1)1.01	Tyr (1)0.99	Phe (1)1.00

Thin Layer Chromatography : Single spot

Silica Gel Layer
Application : 50 μg
Solvent System : n-BuOH:AcOH:H_2O=4:1:5(upper phase)
$CHCl_3$:MeOH:AcOH:H_2O=65:40:1:10
Located by ninhydrin and Pauly reagent

Mass Spectral Analysis : Exhibits correct MW

Sample : 4043 Leucine-Enkephalin
Sample Size : 0.4 μL (0.76 mg/ 76 μL-1M AcOH)
Column : YMC Pack ODS-A (4.6 mm I.D. × 150 mm) #0415227715 + 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. : 162 kg/cm2, ;Temp. : 25℃
Detection : CH.1 210 nm