

Analytical Data

Code: 4189-v

Compound: Fibronectin Active Fragment (GRGDS)

Gly-Arg-Gly-Asp-Ser

(M. W. 490.47) C₁₇H₃₀N₈O₉

Appearance : White amorphous powder

* **Specific Optical Rotation**

$[\alpha]_D^{20}$ -23.0° (c* 0.43, 1% AcOH)

* c value was calculated from the net peptide weight.

* **Elemental Analysis**

Found C, 37.77 ; H, 6.62 ; N, 20.48 %

* **Amino Acid Analysis**

Acid Hydrolysis: 6N HCl, 110°C, 22h.

Asp (1)1.02 Ser (1)0.89 Gly (2)2.00 Arg (1)1.02

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=2:1:1

Located by ninhydrin reagent

Mass Spectral Analysis : Exhibits correct MW

Sample : 4189-v Fibronectin Active Fragment (GRGDS)
Sample Size : 2.0 μ L (0.5 mg/ 50 μ L- H2O)
Column : YMC Pack ODS-A (4.6 mm I.D. \times 150 mm)#04151227748(W) + G(4 \times 10 mm)
Eluent : 0.1 % TFA
Gradient : Acetonitrile 1 % to 1 % [5 min.] to 60 % [25 min.]
Flow Rate : 1.0 mL/min. , ; Press. : 93 kg/cm², ; Temp. : 25 $^{\circ}$ C
Detection : CH.1 220 nm

