Analytical Data

**Code:** 4477-s

**Compound:** Phytosulfokine

Tyr(SO3H)-Ile- Tyr(SO3H) -Thr-Gln (Ammonium Form)

(M.W. 846.88) C_{33}H_{46}N_{6}O_{16}S_{2}

**Appearance**

White amorphous powder

* **Specific Optical Rotation**

\[
[\alpha]^{20}_D -25.1^\circ \quad (c* 0.12, H_{20})
\]

* c value was calculated from the net peptide weight.

* **Elemental Analysis**

Found: C, 43.77; H, 5.86; N, 11.79%

* **Amino Acid Analysis**

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

<table>
<thead>
<tr>
<th>Amino Acid</th>
<th>Found (μmol)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Thr</td>
<td>(1)0.96</td>
</tr>
<tr>
<td>Glu</td>
<td>(1)1.00</td>
</tr>
<tr>
<td>Ile</td>
<td>(1)0.97</td>
</tr>
<tr>
<td>Tyr</td>
<td>(2)1.98</td>
</tr>
</tbody>
</table>

NH_{3} (1) 2.88

* **Mass Spectral Analysis**

Exhibits correct MW
Sample: 4477-s Phytosulfokine
Sample Size: 0.5 μL (0.12 mg/24 μL-0.1N NH4OH)
Column: YMC Pack ODS-A S-3μm (4.6 mm I.D. × 150 mm) #041522716(W) + G (4×10 mm)
Eluent: 0.1 M NaCl (pH 2.4)
Gradient: Acetonitrile 1% to 60% [25 min.]
Flow Rate: 1.0 mL/min., Press.: 159 kg/cm2, Temp.: 25°C
Detection: Ch.1 210 nm