## Sphingosine-1-Phosphate (d18:1)

**D-erythro-sphingosine-1-phosphate**

860492P-1mg

### Specifications

<table>
<thead>
<tr>
<th>Property</th>
<th>Specification</th>
<th>Results</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Molecular Weight</strong></td>
<td>379.472</td>
<td></td>
</tr>
<tr>
<td><strong>Chemical Formula</strong></td>
<td>C_{18}H_{38}NO_{5}P</td>
<td></td>
</tr>
<tr>
<td><strong>Physical State</strong></td>
<td>Powder</td>
<td></td>
</tr>
<tr>
<td><strong>Storage</strong></td>
<td>-20°C</td>
<td></td>
</tr>
<tr>
<td><strong>Expiration Date</strong></td>
<td>One year from date of receipt</td>
<td></td>
</tr>
<tr>
<td><strong>M Lot Number</strong></td>
<td>5952PGA021</td>
<td></td>
</tr>
<tr>
<td><strong>Avanti Lot Number</strong></td>
<td>860492P-1MG-A-021</td>
<td></td>
</tr>
</tbody>
</table>

### Physical Examination

- **Powder**: White solid which contains no foreign matter - Pass

### TLC (50:40:10 v/v,v Chloroform: Methanol: Ammonium Hydroxide)

- >99% Purity
- Ninhydrin: positive
- Iodine: one major spot
- Phosphorus: positive
- Charring: positive
- Water dip: one major spot - All Pass

### Proton NMR

- NMR spectrum consistent with structure - Consistent with structure

### Phosphorus NMR

- NMR spectrum consistent with structure - Consistent with structure

### Mass Spectroscopy

- \([\text{M+H}]^+ = 380.472 \pm 1 \text{ amu}\)  
- \([\text{M+H}]^+ = 380.2 \text{ amu}\)

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