

**TopFluor<sup>®</sup> TMR PI(4,5)P2**

1-oleoyl-2-(6-((4,4-difluoro-1,3-dimethyl-5-(4-methoxyphenyl)-4-bora-3a,4a-diaza-s-indacene-2-propionyl)amino)hexanoyl)-sn-glycero-3-phosphoinositol-4.5-bisphosphate (ammonium salt)

**810384P-100ug**

Page 1 of 1

|                          |   |
|--------------------------|---|
| <b>Molecular Weight</b>  | 1303.06   |
| <b>Chemical Formula</b>  | C <sub>54</sub> H <sub>92</sub> BF <sub>2</sub> N <sub>6</sub> O <sub>21</sub> P <sub>3</sub> |
| <b>Physical State</b>    | Powder  |
| <b>Storage</b>           | -20°C   |
| <b>Expiration Date</b>   | One year from date of receipt   |
| <b>M Lot Number</b>      | 5448PDB010  |
| <b>Avanti Lot Number</b> | 810384P-100UG-B-010   |

| ANALYSIS   | SPECIFICATION   | RESULTS   |
|--|---|---|
| Physical examination   | <b>Powder:</b> Yellow to orange solid which contains no foreign matter  | Pass  |
| TLC<br>(45:35:7.7:2.3<br>Chloroform:Methanol:Water:Ammonium Hydroxide) | >99% Purity<br>UV: one major spot<br>Ninhydrin: negative<br>Iodine: one major spot<br>Phosphorus: positive<br>Charring: positive<br>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  | [M-3NH <sub>4</sub> +H] <sup>2-</sup> = 625.030 ± 1 amu   | [M-3NH <sub>4</sub> +H] <sup>2-</sup> = 624.8 amu |

 Approved by: *Anderson Thomas*

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