

Certificate of Analysis

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| PRODUCT: | Sphingosine-1-phosphate D (+)-erythro-sphingosine-1-phosphate C₁₈H₃₈NO₅P ; M.W. 379.5; CAS# [26993-30-6] |
| PRODUCT NUMBER: | S-2729 |
| LOT NUMBER: | L1437 |
| APPEARANCE: | Off-white powder |
| ANALYSIS (TLC): | >98% |
| NMR: | Conforms |
| SOLUBILITY - 1: | Soluble in methanol @ 1mg/ml, warm acetic acid, 0.3M NaOH @ ~4mg/ml, and Methanol: THF: Water (6:3:1) (>0.5mg/ml). Insoluble in water. |
| SOLUBILITY - 2: | To use sphingosine-1-phosphate in Cell Culture or Aqueous based Enzymatic experiments , we recommend using Bovine Serum Albumin (BSA) to facilitate solubilization in water. Prepare a 125µM stock in 4mg/ml BSA as follows: Initially suspend the sphingosine-1-phosphate in 100% anhydrous methanol (~1mg/ml). This may require boiling (65°C), with occasional replacement of evaporated methanol. Crushing of solids prior to addition of methanol along with crushing and stirring during heating is helpful. Note: This process may take time but will eventually produce a true clear stock solution. |
| STORAGE & HANDLING: | Store desiccated at -20°C. CAUTION: For research use only. Not for human or drug use. The pharmacological and toxicological properties of this product have not been fully investigated. Use caution when handling. Do not use this compound if you are not fully trained or are unaware of the hazards involved. |

Verified: KLS