

CERTIFICATE OF ANALYSIS

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| PRODUCT: | Ryanodine [1 <i>H</i> -Pyrrole-2-carboxylic acid, (3 <i>S</i> ,4 <i>R</i> ,4 <i>aR</i> ,6 <i>S</i> ,7 <i>S</i> ,8 <i>R</i> ,8 <i>aS</i> ,8 <i>bR</i> ,9 <i>S</i> ,9 <i>aS</i>)- dodecahydro-4,6,7,8 <i>a</i> ,8 <i>b</i> ,9 <i>a</i> -hexahydroxy-3,6 <i>a</i> ,9-trimethyl-7-(1- methylethyl)-6,9-methanobenzo[1,2]pentaleno[1,6- <i>bc</i>]furan-8-yl ester] C ₂₅ H ₃₅ NO ₉ , M.W. 493.55, CAS# [15662-33-6] |
| PRODUCT NUMBER: | R-1044 |
| LOT NUMBER: | H1279 |
| APPEARANCE: | White solid |
| SOLUBILITY: | Soluble in ethanol to 10mM and DMSO to 25mM |
| PURITY (HPLC): | 99.3% |
| IDENTITY (¹ H-NMR): | Consistent with structure. |
| MASS SPECTRUM: | Consistent with structure. |
| OTHER DATA: | Ca ²⁺ channel activator. Potent inhibitor of Ca ²⁺ release from sarcoplasmic reticulum (IC ₅₀ values are 10 and 2.8 nM in skeletal and cardiac muscle respectively). Isolated from <i>Ryania speciosa</i> , <i>Flacourtiaceae</i> |
| STORAGE & HANDLING: | Store desiccated at -20°C. PROTECT FROM LIGHT! <u>WARNING:</u> HARMFUL! DANGEROUS FOR THE ENVIRONMENT! |

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