

CERTIFICATE OF ANALYSIS

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| PRODUCT: | Rottlerin, [Mallotoxin] Isolated from <i>Mallotus philippinensis</i> fruits C ₃₀ H ₂₈ O ₈ , M.W. 516.6, CAS# [82-08-6], M.I. 14: 8272 |
| PRODUCT NUMBER: | R-1120 |
| LOT NUMBER: | B1142A |
| APPEARANCE: | Orange solid |
| SOLUBILITY: | Soluble in DMSO, chloroform or 100% ethanol; insoluble in water. |
| PURITY (HPLC): | > 98.0% |
| RTECS: | AM6913800 |
| PRODUCT DESCRIPTION: | Mitochondrial uncoupler that depolarizes the mitochondrial membrane potential, reduces cellular ATP levels, activates 5'-AMP-activated protein kinase (AMPK) and affects mitochondrial production of reactive oxygen species (ROS). Potent activator of multiple Ca ²⁺ -sensitive K ⁺ channels. Blocks several kinases and non-kinase proteins <i>in vitro</i> . Has been widely-used as a selective inhibitor of protein kinase Cδ (PKCδ) (IC ₅₀ = 3-6μM). Although there is extensive published documentation to support the use of rottlerin as a selective PKCδ inhibitor, there has been some controversy in the literature over this claim. Some of this controversy may arise from the fact that rottlerin is a promiscuous inhibitor and therefore may not always display the same properties as would be expected from a classical 1:1 inhibitor. However, there are studies indicate that rottlerin has no direct effect on PKCδ and that it should not be used to determine the |

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involvement of PKC δ in biological processes.

STORAGE & HANDLING: Keep cool and dry at -20°C.

CAUTION: For laboratory research & scientific manufacturing 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: DD