



CERTIFICATE of ANALYSIS

PRODUCT:	Chlorothricin from <i>Streptomyces sp.</i> [Antibiotic K 818A] C ₅₀ H ₆₃ ClO ₁₆ , MW: 955.5, CAS [34707-92-1]
PRODUCT NUMBER:	C-1400
LOT NUMBER:	A9604
APPEARANCE:	White Powder
SOLUBILITY:	Soluble in Ethyl Acetate, Ethanol, Methanol, DMF or DMSO.
PURITY (HPLC):	> 99%
PRODUCT DESCRIPTION:	The tetrone acid, chlorothricin is an unusual macrocyclic antibiotic from a <i>Streptomyces sp.</i> Related to kijanimicin, sccharocarcins, tetrocarcin and versipelostatin. It shows inhibitory activity against cholesterol biosynthesis from mevalonate and inhibits pyruvate carboxylases purified from rat liver, chicken liver and <i>Azotobacter vinelandii</i> . Several members of this class have received considerable literature focus. Versipelostatin was shown to inhibit transcription from the promoter of GRP78, a gene that is activated as part of a stress signaling pathway under glucose deprivation resulting in unfolded protein response (UPR).

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The UPR-inhibitory action was seen only in conditions of glucose deprivation and caused selective and massive killing of the glucose-deprived cells. Tetrocarcin A appears to target the phosphatidylinositide-3'-kinase/Akt signaling pathway.

STORAGE & HANDLING:

-20° C. Keep cool and dry. **PROTECT FROM LIGHT!**

CAUTION: For research & 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

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