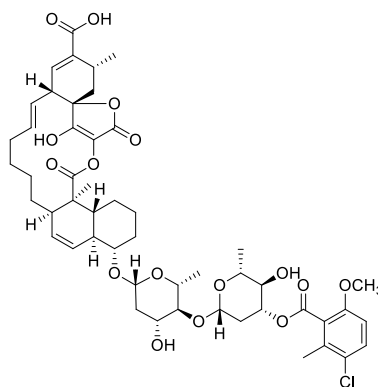


Chlorothricin

Code No.: **BIA-C1016**

Pack sizes: **1 mg, 5 mg**



Synonyms : K 818A

Specifications

| | |
|-------------------|---|
| CAS # | : 34707-92-1 |
| Molecular Formula | : C ₅₀ H ₆₃ ClO ₁₆ |
| Molecular Weight | : 955.5 |
| Source | : <i>Streptomyces</i> sp. |
| Appearance | : White solid |
| Purity | : >95% by HPLC |
| Long Term Storage | : -20°C |
| Solubility | : Soluble in ethanol, methanol, DMF or DMSO. Poor water solubility. |

Application Notes

The tetrone acid, chlorothricin, is an unusual macrocyclic antibiotic from a *Streptomyces* sp., related to kijanimicin, saccharocarins, tetrocarins and versipelostatatin. Chlorothricin inhibits cholesterol biosynthesis from mevalonate and inhibits pyruvate carboxylases purified from rat liver, chicken liver and *Azotobacter vinelandii*.

References

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2. Mode of action of the macrolide-type antibiotic, chlorothricin. Effect of the antibiotic on the catalytic activity and some structural parameters of pyruvate carboxylases purified from rat and chicken liver. Schindler P.W. et al., Eur. J. Biochem. 1975, 55, 543.
3. Effect on tumor cells of blocking survival response to glucose deprivation. Park H.R. J. Natl. Cancer. Inst. 2004, 96, 1300.
4. Apoptosis and inactivation of the PI3-kinase pathway by tetrocarcin A in breast cancers. Nakajima H. Biochem Biophys Res Commun. 2007, 356, 260.