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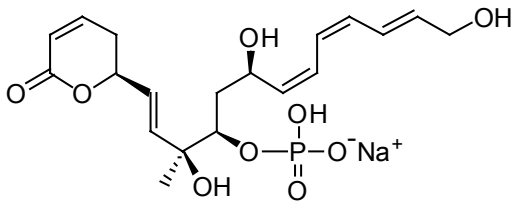
PRODUCT DATA SHEET

Fostriecin

Code: **BIA-F1030**

Pack sizes: **0.1 mg, 0.5 mg**



Synonyms : **Phosphotrienin, Antibiotic CI 920, Antibiotic CL 1565A, Antibiotic PD 110161, NSC 339638**

Specifications

CAS #	:	**87860-39-7**
Molecular Formula	:	**$C_{19}H_{26}NaO_9P$**
Molecular Weight	:	**452.4**
Source	:	***Streptomyces* sp. MST-AS5535**
Appearance	:	**White powder**
Purity	:	**> 99% by HPLC**
Long Term Storage	:	**-20°C**
Solubility	:	**Soluble in water, optimal stability in aqueous buffered solutions at pH 6.5. NB: hydrolysis of the phosphate ester will result from inappropriate storage.**

Application Notes

Fostriecin is the most fully characterised member of a family of phosphate esters of a triene antibiotic. The antitumor potential of fostriecin has attracted considerable interest, focused on its mode of action as a topoisomerase II inhibitor. Subsequent research has focused on this metabolite's selective inhibition of protein phosphatase PP2A.

References

1. Fostriecin, an antitumor antibiotic with inhibitory activity against serine/threonine protein phosphatases types 1 (PP1) and 2A (PP2A), is highly selective for PP2A. Walsh A.H. et al. *FEBS Lett.* **1997**, 416, 230.
2. Chromosome condensation induced by fostriecin does not require p34cdc2 kinase activity and histone H1 hyperphosphorylation, but is associated with enhanced histone H2A and H3 phosphorylation. Guo X.W. et al. *EMBO J.* **1995**, 14, 976.
3. Antitumor drug fostriecin inhibits the mitotic entry checkpoint and protein phosphatases 1 and 2A. Roberge M. et al. *Cancer Res.* **1994**, 54, 6115.

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