

Hello Bio, Inc.  
304 Wall St., Princeton, NJ 08540 USA

T. 609-683-7500  
F. 609-228-4994

customercare-usa@hellobio.com



## DATASHEET

Fostriecin sodium salt

### Product overview

<b>Name</b>	Fostriecin sodium salt
<b>Cat No</b>	HB0293
<b>Biological action</b>	Inhibitor
<b>Purity</b>	>98%
<b>Description</b>	Potent protein phosphatase inhibitor

### Images



### Biological Data

<b>Biological description</b>	Potent protein phosphatase inhibitor. Inhibits PP4, PP2A, PP5C and PP1 (IC <sub>50</sub> values are 3, 3.2 nM, 60 and 131 μM). Shows antibiotic and antitumor actions. Membrane permeable.
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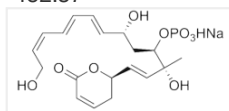
### Solubility & Handling

<b>Storage instructions</b>	-20 °C (desiccate)
<b>Solubility overview</b>	Soluble in water (100mM)
<b>Important</b>	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

### Chemical Data

<b>Chemical name</b>	(6 <i>R</i> )-5,6-Dihydro-6-[(1 <i>E</i> ,3 <i>R</i> ,4 <i>R</i> ,6 <i>R</i> ,7 <i>Z</i> ,9 <i>Z</i> ,11 <i>E</i> )-3,6,13-trihydroxy-3-methyl-4-(phosphonoxy)-1,7,9,11-tridecatetraenyl]-2 <i>H</i> -pyran-2-one sodium salt
<b>Molecular Weight</b>	452.37

**Chemical structure**



<b>Molecular Formula</b>	C <sub>19</sub> H <sub>26</sub> O <sub>9</sub> PNa
<b>CAS Number</b>	87860-39-7
<b>PubChem identifier</b>	73324802
<b>SMILES</b>	CC(C=CC1CC=CC(=O)O1)(C(CC(C=CC=CC=CCO)O)OP(=O)(O)[O-])O.[Na+]

InChi	InChI=1S/C19H27O9P.Na/c1-19(23,12-11-16-9-7-10-18(22)27-16)17(28-29(24,25)26)14-15(21)8-5-3-2-4-6-13-20;/h2-8,10-12,15-17,20-21,23H,9,13-14H2,1H3,(H2,24,25,26);/q;+1/p-1
InChiKey	XBUIKNRVGYFSHL-UHFFFAOYSA-M
MDL number	MFC009971059

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## References

**Fostriecin, an antitumor antibiotic with inhibitory activity against serine/threonine protein phosphatases types 1 (PP1) and 2A (PP2A), is highly selective for PP2A.**

Walsh AH *et al* (1997) FEBS Lett 416(3)

**PubMedID** [9373158](#)

**Purification of protein phosphatase 4 catalytic subunit: inhibition by the antitumour drug fostriecin and other tumour suppressors and promoters.**

Hastie CJ *et al* (1998) FEBS Lett 431(3)

**PubMedID** [9714542](#)

**Suppression of Ser/Thr phosphatase 4 (PP4C/PPP4C) mimics a novel post-mitotic action of fostriecin, producing mitotic slippage followed by tetraploid cell death.**

Theobald B *et al* (2013) Mol Cancer Res 11(8)

**PubMedID** [23671329](#)

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