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DATASHEET

Fostriecin sodium salt

Product overview

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

Images



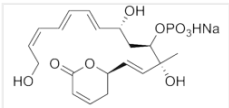
Biological Data

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

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

Chemical Data

Chemical name	(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-(phosphonooxy)-1,7,9,11-tridecatetraenyl]-2 <i>H</i> -pyran-2-one sodium salt
Molecular Weight	452.37
Chemical structure	
Molecular Formula	C ₁₉ H ₂₆ O ₉ PNa
CAS Number	87860-39-7

Chemical name	(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-(phosphonooxy)-1,7,9,11-tridecatetraenyl]-2 <i>H</i> -pyran-2-one sodium salt
PubChem identifier	73324802
SMILES	<chem>CC(C=CC1CC=CC(=O)O1)(C(CC(C=CC=CC=CCO)O)OP(=O)(O)[O-])O.[Na+]</chem>
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	XBUIKNRVGYFSL-UHFFFAOYSA-M
MDL number	MFCD09971059

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](#)