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DATASHEET

Okadaic Acid Sodium Salt

Product overview

Name	Okadaic Acid Sodium Salt
Cat No	HB0470
Biological action	Inhibitor
Purity	>98%
Description	Water soluble, potent protein phosphatase 1 and 2A inhibitor

Biological Data

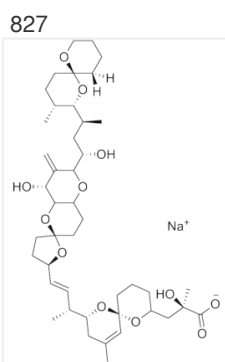
Biological description	Water soluble. Potent protein phosphatase 1 (PP1) and 2A (PP2A) inhibitor (IC ₅₀ values are 3 and 0.2-1 nM). Found in the black sponge <i>Halichondria okadae</i> . Mimics effects of insulin on glucose transport in adipocytes. Displays tumour promoting properties.
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Solubility & Handling

Storage instructions	-20 °C (desiccate)
Solubility overview	Soluble in DMSO (1 mg/ml) or ethanol
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

Molecular Weight
Chemical structure



Molecular Formula
CAS Number
PubChem identifier
SMILES

C₄₄H₆₇O₁₃Na
209266-80-8
23714931
CC1CC[C@]2(CCCCO2)O[C@@H]1[C@@H](C)C[C@@H]([C@@H]3C(=C)[C@H]([C@H]4[C@H](O3)CC[C@]5(O4)CC[C@@H](O5)/C=C/[C@@H](C)[C@@H]6CC(=C[C@@]7(O6)[C@@H](CC[C@H](O7)C[C@](C)(C(=O)[O-])O)O)O.[Na+]

References

Okadaic acid: a new probe for the study of cellular regulation.

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Inhibitory effect of a marine-sponge toxin, okadaic acid, on protein phosphatases. Specificity and kinetics.

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Effects of the tumour promoter okadaic acid on intracellular protein phosphorylation and metabolism.

Haystead TA *et al* (1989) Nature 337(6202)

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