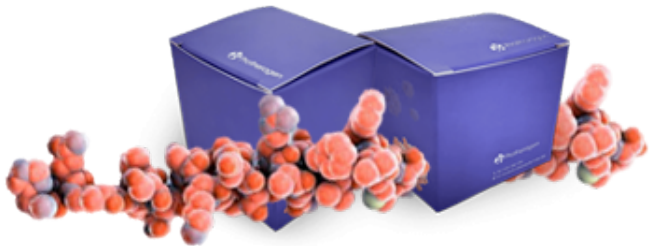
Protheragen
Obesity



Dehydrocostus lactone

Cat. No.:	OB0225WX-2173
Appearance:	Solid
Purity:	≥99%
Identity:	Confirmed by NMR, and LC-MS.
Size:	5 mg; 10 mg; 25 mg; 50 mg; 100 mg; 500 mg

This product is for research use only and is not intended for diagnostic use.

Product Overview

Description	Dehydrocostus lactone is a sesquiterpene lactone that exhibits a broad spectrum of biological properties, including immunomodulatory, anti-ulcer, and anti-tumor activities.
Synonym	Epiligulyl oxide; (-)-Dehydrocostus lactone; 477-43-0; Dehydrocostuslactone; Epi ligulyl oxide; (-)-dehydrocostus lactone; (-)-dehydrocostuslactone; Azuleno[4,5- b]furan-2(3H)-one,decahydro-3,6,9-tris(methylene)-; (3a*S*,6a*R*,9a *R*,9b*S*)-3,6,9-trimethylenedecahydroazuleno[4,5-b]furan-2(3H)-one; (3a< i>S,6a*R*,9a*R*,9b*S*)-decahydro-3,6,9-tris(methylene)azuleno [4,5-b]furan-2(3H)-one; (3a*S*,6a*R*,9a*R*,9b*S*)-3,6,9-trim ethylidene-3a,4,5,6a,7,8,9a,9b-octahydroazuleno[4,5-b]furan-2-one; (3a*R*,6 a*S*,9a*S*,9b*R*)-3,6,9-tris(methylidene)octahydroazuleno[4,5-b]furan-2,8(3H,4H)-dione; (3a*S*,6a*R*,9a*R*,9b*S*)-3,6,9-Trime thylenedecahydroazuleno[4,5-b]furan-2(9bH)-one; Guaia-4(15),10(14),11(13)-trien- 12-oic acid, 6alpha-hydroxy-, gamma-lactone
CAS No.	477-43-0
Compound CID	73174
Formula	$C_{15}H_{18}O_2$
Formula Weight	230.3

Specification

Relative Density	1.09 g/cm^3

Address: 101-4 Colin Dr, Holbrook, NY 11741, USA
Phone: 1-631-506-1393
info@obesityscientific.com

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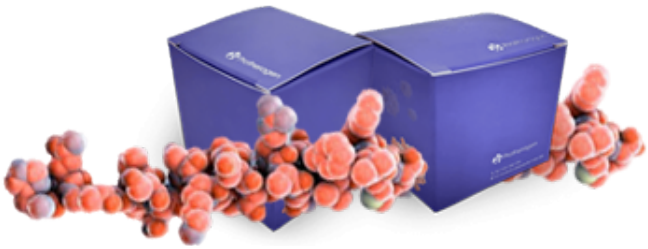

IUPAC Name	(3a*S*,6a*R*,9a*R*,9b*S*)-3,6,9-Trimethylidene-3a,4,5,6a,7,8 ,9a,9b-octahydroazuleno[4,5-b]furan-2-one
InChI	InChI=1S/C15H18O2/c1-8-4-7-12-10(3)15(16)17-14(12)13-9(2)5-6-11(8)13/h11-14H,1-7H2/t11-,12-,13-,14-/m0/s1
InChI Key	NETSQGRTUNRXEO-XUXIUFHCSA-N
SMILES string	C=C1CC[C@@H]2[C@@H]([C@@H]3[C@H]1CCC3=C)OC(=O)C2=C
Stability	3 years in powder form.
Storage	Storage at -20°C.
Applications	Dehydrocostus lactone is employed in pharmacological studies as a natural sesqui terpene lactone to investigate its anti-inflammatory effects and its ability to induce apoptosis in malignant cells *via* the inhibition of NF-kappaB.

Library Information

Target	IκB/IKK
Receptor	IKKβ
Pathways	NF-κB
Plate Number	AOCL-28
Plate Location	g8
Empty Location	a1-h1; a12-h12
Container	96-well plate
Formulation	10mM DMSO
DMSO Max Solubility	60 mg/mL; 260.52 mM
ALogP	3.282
HBA_Count	2
HBD_Count	0
Rotatable Bond	0

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