

## Product Information

### Dioscin

**Cat. No.:** X23-04-XQ254

**Size:** 20 mg; 50 mg; 100 mg; 200 mg

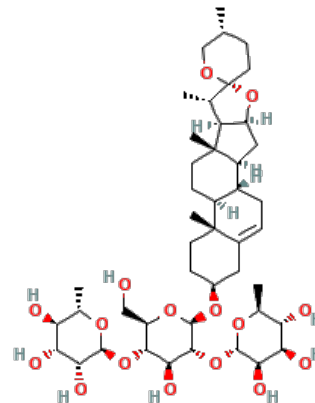
**MDL:** MFCD02094174

**CAS Number:** 19057-60-4

**Compound CID:** 119245

**Synonym:** 19057-60-4; Dioscin; Collettiside III; Dioscine; Collettinside III

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



### Product Information

<b>Description</b>	Dioscin, a natural steroid saponin that has been shown to promote anticancer activity against several forms of cancers.
<b>Molecular Weight</b>	869.05
<b>Molecular Formula</b>	C <sub>45</sub> H <sub>72</sub> O <sub>16</sub>
<b>IUPAC Name</b>	(2S,3R,4R,5R,6S)-2-[(2R,3S,4S,5R,6R)-4-Hydroxy-2-(hydroxymethyl)-6-[(1S,2S,4S,5'R,6R,7S,8R,9S,12S,13R,16S)-5',7,9,13-tetramethylspiro[5-oxapentacyclo[10.8.0.02,9.04,8.013,18]icos-18-ene-6,2'-oxane]-16-yl]oxy-5-[(2S,3R,4R,5R,6S)-3,4,5-trihydroxy-6-methyloxan-2-yl]oxyoxan-3-yl]oxy-6-methyloxane-3,4,5-triol
<b>InChI</b>	InChI=1S/C45H72O16/c1-19-9-14-45(54-18-19)20(2)30-28(61-45)16-27-25-8-7-23-15-24(10-12-43(23,5)26(25)11-13-44(27,30)6)57-42-39(60-41-36(52)34(50)32(48)22(4)56-41)37(53)38(29(17-46)58-42)59-40-35(51)33(49)31(47)21(3)55-40/h7,19-22,24-42,46-53H,8-18H2,1-6H3/t19-,20+,21+,22+,24+,25-,26+,27+,28+,29-,30+,31+,32+,33-,34-,35-,36-,37+,38-,39-,40+,41+,42-,43+,44+,45-/m1/s1
<b>InChI Key</b>	VNONINPVFQTJOC-ZGXDEBHDSA-N
<b>Canonical SMILES</b>	CC1CCC2(C(C3C(O <sub>2</sub> )CC4C3(CCC5C4CC=C6C5(CCC(C6)OC7C(C(C(C(O <sub>7</sub> )CO)OC8C(C(C(C(O <sub>8</sub> )C)O)O)O)OC9C(C(C(C(O <sub>9</sub> )C)O)O)O)C)C)OC1
<b>Isomeric SMILES</b>	C[C@@H]1CC[C@@]2([C@H]([C@H]3[C@@H](O <sub>2</sub> )C[C@@H]4[C@@]3(CC[C@H]5[C@H]4CC=C6[C@@]5(CC[C@@H](C6)O[C@H]7[C@@H]([C@H]([C@@H]([C@H](O <sub>7</sub> )CO)O[C@H]8[C@@H]([C@@H]([C@H]([C@H]([C@H](O <sub>8</sub> )C)O)O)O)O[C@H]9[C@@H]([C@@H]([C@H]([C@H]([C@@H](O <sub>9</sub> )C)O)O)O)C)C)OC1

---

<b>Source</b>	The rhizomes of <i>Dioscorea nipponica</i> Makino
<b>Form</b>	White or yellowish crystalline powder
<b>Purity</b>	>98%, determined by HPLC.
<b>Solubility</b>	It is insoluble in water, petroleum ether, benzene, soluble in methanol, ethanol, acetic acid, slightly soluble in acetone, amyl alcohol.
<b>Identity</b>	Confirmed by NMR and MS.
<b>Stability</b>	The product is stable for two years when stored at the recommended temperature.
<b>Melting Point</b>	204-207°C
<b>Applications</b>	Dioscin can be used for anti-inflammatory, anti-tumor, anti-viral, cholesterol-lowering, blood-pressure-lowering, molluscicidal, and anti-fertility effect experiments, <i>etc.</i>
<b>Storage</b>	Store at 4°C. Protect from light.

---

### Safety Information

<b>Personal Protective Equipment</b>	Gloves, eyeshields, N95 mask
--------------------------------------	------------------------------

---