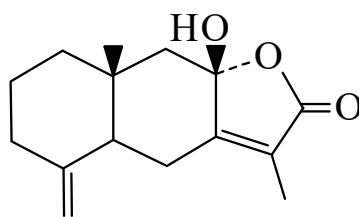




>>Entry Name: 8-Hydroxy-4(15),7(11)-eudesmadien-12,8-olide



**Molecular Formula:** C<sub>15</sub>H<sub>20</sub>O<sub>3</sub>

**Molecular Weight:** 248.321

**Accurate Mass:** 248.141245

**Percentage Composition:** C 72.55%; H 8.12%; O 19.33%

>>Variant: 8β-form

**Synonym(s):** Atractylenolide III. 8-Hydroxyasterolide. Codonolactone

**CAS Registry Number:** 73030-71-4

**Molecular Formula:** C<sub>15</sub>H<sub>20</sub>O<sub>3</sub>

**Molecular Weight:** 248.321

**Accurate Mass:** 248.141245

**Percentage Composition:** C 72.55%; H 8.12%; O 19.33%

**Biological Source:** Constit. of *Aster umbellatus* and *Codonopsis pilosula*

**Physical Description:** Cryst. (Et<sub>2</sub>O/petrol)

**Melting Point:** Mp 200-201° (192-193°)

**Optical Rotation:** [α]<sub>D</sub><sup>24</sup>+185.2 (c, 0.3 in CHCl<sub>3</sub>)

>>Derivative: Me ether

**Synonym(s):** 8β-Methoxyatractylenolide I

**CAS Registry Number:** 193694-24-5

**Molecular Formula:** C<sub>16</sub>H<sub>22</sub>O<sub>3</sub>

**Molecular Weight:** 262.348

**Accurate Mass:** 262.156895

**Percentage Composition:** C 73.25%; H 8.45%; O 18.30%

**Physical Description:** Prisms

**Melting Point:** Mp 72-73°

>>Derivative: 8-Hydroperoxide

**Synonym(s):** 8-Hydroperoxy-4(15),7(11)-eudesmadien-12,8-olide. Peroxyatractylenolide III. Peroxiatractylenolide III

**CAS Registry Number:** 248255-52-9

**Molecular Formula:** C<sub>15</sub>H<sub>20</sub>O<sub>4</sub>

**Molecular Weight:** 264.321

**Accurate Mass:** 264.13616

**Percentage Composition:** C 68.16%; H 7.63%; O 24.21%

**Biological Source:** Constit. of *Atractylodes macrocephala*

**Physical Description:** Cryst. (EtOAc)

**Melting Point:** Mp 191-192°

**Optical Rotation:** [α]<sub>D</sub><sup>20</sup>+249 (c, 0.4 in EtOH)

**UV:** [neutral] λ<sub>max</sub> 220 (log ε 4.68) (EtOH)

#### References:

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Bohlmann, F. *et al.*, *Phytochemistry*, 1980, **19**, 433

Tong, D. *et al.*, *Yaoxue Tongbao*, 1984, **19**, 555-558; *CA*, **103**, 245d, (*isol*)

Wang, H. *et al.*, *Zhongcaoyao*, 1991, **22**, 195, (*Codonolactone*)

Chen, Z.-L. *et al.*, *Phytochemistry*, 1997, **45**, 765-767, (*8β-Methoxyatractylenolide I*)

Zhang, Q.F. *et al.*, *Chin. Chem. Lett.*, 1998, **9**, 1097-1100, (*Peroxyatractylenolide III*)