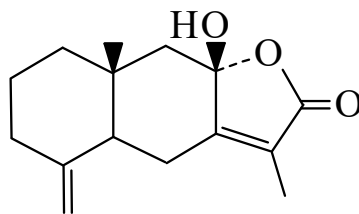




>>Entry Name: 8-Hydroxy-4(15),7(11)-eudesmadien-12,8-olide



Molecular Formula: C₁₅H₂₀O₃

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: C₁₅H₂₀O₃

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. (Et₂O/petrol)

Melting Point: Mp 200-201° (192-193°)

Optical Rotation: [α]_D²⁴+185.2 (c, 0.3 in CHCl₃)

>>Derivative: Me ether

Synonym(s): 8β-Methoxyatractylenolide I

CAS Registry Number: 193694-24-5

Molecular Formula: C₁₆H₂₂O₃

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: C₁₅H₂₀O₄

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]_D²⁰+249 (c, 0.4 in EtOH)

UV: [neutral] λ_{max} 220 (log ε 4.68) (EtOH)

References:

Uchida, M. *et al.*, *Chem. Pharm. Bull.*, 1980, **28**, 92

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*)