Optical Rotation: $[\alpha]_D$ +36 ($CHCl_3$)

>>**Variant:** (*S*)-form

CAS Registry Number: 139079-42-8

Molecular Formula: $C_{16}H_{16}O_6$
Molecular Weight: 304.299
Accurate Mass: 304.09469
Percentage Composition: C 63.15%; H 5.30%; O 31.55%
Physical Description: Constit. of *Esenbeckia grandiflora* ssp. *grandiflora*, *Magydaris pastinacea* and *Skimmia japonica*
Melting Point: Mp 115-116°
Optical Rotation: $[\alpha]_D$ –15 (c, 0.7 in Py)

>>**Variant:** (±)-form

Molecular Formula: $C_{16}H_{16}O_6$
Molecular Weight: 304.299
Accurate Mass: 304.09469
Percentage Composition: C 63.15%; H 5.30%; O 31.55%
Biological Source: Isol. from *Prangos pabularia* and *Prangos serawschanica*
Physical Description: Cryst. (Et_2O/petrol)
Melting Point: Mp 128-129°

>>**Variant:** (ξ)-form

Molecular Formula: $C_{16}H_{16}O_6$
Molecular Weight: 304.299
Accurate Mass: 304.09469
Percentage Composition: C 63.15%; H 5.30%; O 31.55%

>>**Derivative:** 2'-(2-Hydroxypropanoyl)
Synonym(s): Fesumtuorin B

Molecular Formula: $C_{19}H_{20}O_8$
Molecular Weight: 376.362
Accurate Mass: 376.11582
Percentage Composition: C 60.64%; H 5.36%; O 34.01%
Biological Source: Cosntit. of the dried roots of *Ferula sembul*
Optical Rotation: $[\alpha]_D^{25}$+3.6 (c, 0.4 in MeOH)
UV: [neutral] λ_{max} 217 (log ε 4.28); 248 (log ε 4.18); 299 (log ε 3.91) (MeOH)
Other Data: Stereochem. not determined

References:

Gupta, B.D. *et al.*, *Indian J. Chem.*, 1964, **2**, 464, *(isol)*
Sharma, Y.N. *et al.*, *Naturwissenschaften*, 1964, **51**, 537, *(isol)*
Nielsen, B.E. *et al.*, *Acta Chem. Scand.*, 1969, **23**, 962, *(config)*
Sokolova, A.I. *et al.*, *Khim. Prir. Soedin.*, 1969, **5**, 359; *Chem. Nat. Compd. (Engl. Transl.)*, 1969, **5**, 299, *(Tomasin)*
Bandopadhyay, M. *et al.*, *Indian J. Chem.*, 1970, **8**, 855; 1146; 1973, **11**, 530, *(isol, synth)*
González, A.G.*, An. Quim.*, 1974, **70**, 856; 1976, **72**, 584; 1977, **73**, 858, *(derivs)*
Ivie, G.W. *et al.*, *J. Agric. Food Chem.*, 1978, **26**, 1394, *(isol)*
Razdan, T.K. *et al.*, *Phytochemistry*, 1982, **21**, 923, *(isol, ir, uv, pmr, ms)*
Harkar, S. *et al.*, *Phytochemistry*, 1984, **23**, 419, *(isol, ir, ms)*
Sun, H. *et al.*, *Pharmazie*, 1986, **41**, 888
Elgamal, M.H.A. *et al.*, *Phytochemistry*, 1993, **34**, 819, *(2'-Ac)*
Trani, M. *et al.*, *Gazz. Chim. Ital.*, 1997, **127**, 415-418, *(isol, S-form)*
Zhou, P. *et al.*, *Phytochemistry*, 2000, **53**, 689-697, *(Fesumtuorin B)*