



**CAS Registry Number:** 63631-41-4

**Molecular Formula:** C<sub>17</sub>H<sub>18</sub>O<sub>4</sub>

**Molecular Weight:** 286.327

**Accurate Mass:** 286.12051

**Percentage Composition:** C 71.31%; H 6.34%; O 22.35%

**Biological Source:** Stress metab. from *Trifolium arvense* and *Trifolium stellatum*

**Melting Point:** Mp 111-115°

**UV:** [neutral] λ<sub>max</sub> 217 (); 285 (); 290 () (MeOH) (Berdy) [neutral] λ<sub>max</sub> 205 (ε 50000); 225 (ε 14800); 281 (ε 5900) (EtOH) (Berdy)

>>**Derivative:** 4',7-Di-Me ether

**Synonym(s):** 2'-Hydroxy-4',7-dimethoxyisoflavan. **Isosativan**

**CAS Registry Number:** 60102-29-6

**Molecular Formula:** C<sub>17</sub>H<sub>18</sub>O<sub>4</sub>

**Molecular Weight:** 286.327

**Accurate Mass:** 286.12051

**Percentage Composition:** C 71.31%; H 6.34%; O 22.35%

**Biological Source:** Isol. from *Dalbergia ecastophyllum*, and phytoalexin of *Medicago scutellata*, *Medicago rugosa* and *Trifolium* spp.

**UV:** [neutral] λ<sub>max</sub> 214 (); 281 (); 284 () (EtOH) (Berdy) [base] λ<sub>max</sub> 219 (); 291 () (EtOH-NaOH) (Berdy)

#### References:

- Ingham, J.L. *et al.*, *Nature (London)*, 1973, **242**, 125, (*Sativan*)  
Braz Filho, R. *et al.*, *Phytochemistry*, 1975, **14**, 1454, (*isol*)  
Ingham, J.L., *Z. Naturforsch., C*, 1976, **31**, 331; 1977, **32**, 446,1018; 1979, **34**, 630; 1980, **35**, 384  
Ingham, J.L. *et al.*, *Phytochemistry*, 1977, **16**, 1279; 1979, **18**, 1711, (*isol, struct*)  
Alves, H.M. *et al.*, *Phytochemistry*, 1978, **17**, 1423, (*synth*)  
Ingham, J.L. *et al.*, *Prog. Chem. Org. Nat. Prod.*, 1983, **43**, 1, (*rev, occur*)  
Herath, H.M.T.B. *et al.*, *Phytochemistry*, 1998, **47**, 117-119, (*isol, pmr, cmr*)