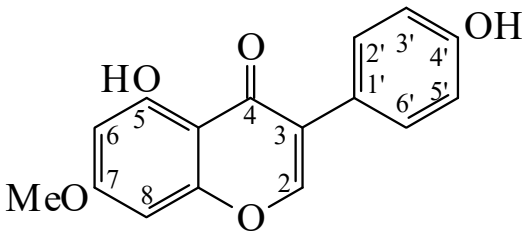
>>**Entry Name: 4',5-Dihydroxy-7-methoxyisoflavone**
Synonym(s): 5-Hydroxy-3-(4-hydroxyphenyl)-7-methoxy-4*H*-1-benzopyran-4-one, 9CI. **Prunetin.** Padmakastein. Prunusetin



CAS Registry Number: 552-59-0
Related CAS Registry Numbers(s): 26015-63-4

Molecular Formula: $C_{16}H_{12}O_5$
Molecular Weight: 284.268
Accurate Mass: 284.068475
Percentage Composition: C 67.60%; H 4.25%; O 28.14%
Biological Source: Occurs in bark of *Prunus puddum* and in several other *Prunus* spp. (Rosaceae) and in *Dalbergia violacea, Genista carinalis, Glycyrrhiza glabra* and *Pterocarpus angolensis* (Leguminosae). Also prod. by cultures of *Mycobacterium phlei*
Physical Description: Cryst. (EtOH)
Melting Point: Mp 246-248°
Other Data: All isolations of isoflavones from microorganism cultures are considered doubtful

>>**Derivative:** 4'-*O*-β-D-Glucopyranoside
Synonym(s): Prunitrin. Prunitroside. Trifoside. Prunetrin

CAS Registry Number: 154-36-9

Molecular Formula: $C_{22}H_{22}O_{10}$
Molecular Weight: 446.41
Accurate Mass: 446.1213
Percentage Composition: C 59.19%; H 4.97%; O 35.84%
Biological Source: Isol. from *Pterocarpus mahaleb, Pterocarpus puddum, Trifolium medium, Trifolium pratense* and *Genista carinalis*
Use/Importance: Reported to have antispasmodic, expectorant and hypolipidaemic props.
Melting Point: Mp 181° (sinters from 160°)
Optical Rotation: $[\alpha]_D$ –82.5 (Py)
Other Data: Padmakastin was prob. impure prunitrin

>>**Derivative:** 5-*O*-β-D-Glucopyranoside
Synonym(s): Prunetinoside

CAS Registry Number: 89595-66-4

Molecular Formula: $C_{22}H_{22}O_{10}$
Molecular Weight: 446.41
Accurate Mass: 446.1213
Percentage Composition: C 59.19%; H 4.97%; O 35.84%
Biological Source: Isol. from *Pterocarpus avium* and *Pterocarpus cerasus*
Physical Description: Plates
Melting Point: Mp 237-239°

>>**Derivative:** 4'-*O*-β-D-Galactopyranoside

CAS Registry Number: 117007-27-9

Molecular Formula: $C_{22}H_{22}O_{10}$
Molecular Weight: 446.41
Accurate Mass: 446.1213
Percentage Composition: C 59.19%; H 4.97%; O 35.84%
Biological Source: Isol. from *Dalbergia spinosa*
Melting Point: Mp 182-184°