

C-methylated and C-prenylatedisoflavonoids from rootextract of *Desmodiumuncinatum*

Salome M. Guchu, Abiy Yenesew, Muniru K. Tsanuo, Nicholas K. Gikonyo, John A. Pickett, Antony M. Hooper, Ahmed Hassanali

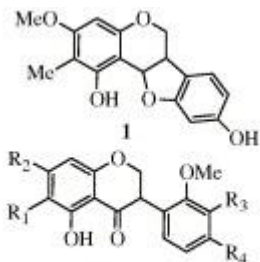
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Abstract

A pterocarpan, 1,9-dihydroxy-3-methoxy-2-methylpterocarpan (named uncinacarpan) and two isoflavanones, 5,7-dihydroxy-2',3',4'-trimethoxy-6-(3-methylbut-2-enyl)isoflavanone (named uncinanone D) and 5,4'-dihydroxy-7,2'-dimethoxy-6-methylisoflavanone (named uncinanone E), were isolated from the CH₂Cl₂rootextract of *Desmodiumuncinatum* (Jacq.) DC and characterised by spectroscopic methods. In addition, a rare pterocarpan edudiol and two known abietane diterpenes, 7-oxo-15-hydroxydehydroabietic acid and 7-hydroxycallitrisic acid were identified. The fraction of the rootextract that was analysed induced germination of *Striga hermonthica* seeds, but none of the isolated compounds showed this activity.

Graphical abstract

Three isoflavanoids, uncinacarpan (**1**), uncinanone D (**3**) and uncinanone E (**4**), along with three known compounds were isolated from the roots of *Desmodiumuncinatum*, which induced germination of *Striga hermonthica* seeds. The isolated compounds were characterised by spectroscopic methods.



4 R₁ = Me, R₂ = OMe, R₃ = H, R₄ = OH

3 R₁ = Prenyl, R₂ = OH, R₃ = OMe, R₄ = OMe