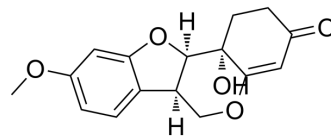


## 1,11b-Dihydro-11b-hydroxymedicarpin

Cat. No.:	HY-N0976
CAS No.:	210537-04-5
Molecular Formula:	C <sub>16</sub> H <sub>16</sub> O <sub>5</sub>
Molecular Weight:	288.3
Target:	Interleukin Related
Pathway:	Immunology/Inflammation
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

#### Description

1,11b-Dihydro-11b-hydroxymedicarpin (11b-Hydroxy-11b,1-dihydromedicarpin) is a pterocarpan from *Ononis viscosa* subsp. *breviflora* is a Medicarpin derivative<sup>[1]</sup>. Medicarpin, a natural pterocarpan, heals cortical bone defect by activation of Notch and Wnt canonical signaling pathways<sup>[2]</sup>. Medicarpin prevents arthritis in post-menopausal conditions by arresting the expansion of TH17 cells and pro-inflammatory cytokines. Medicarpin down-regulates pro-inflammatory cytokines like TNF- $\alpha$ , IL-6 and IL-17A, while up-regulates anti-inflammatory cytokine IL-10 in arthritis (CIA) model of mice<sup>[3]</sup>.

### REFERENCES

- [1]. Alejandro F.Barrero, et al. Pterocarpan from *Ononis viscosa* subsp. *breviflora*. *Phytochemistry*. 1998 May, 48 (1): 187-190.
- [2]. Manisha Dixit, et al. Medicarpin, a Natural Pterocarpan, Heals Cortical Bone Defect by Activation of Notch and Wnt Canonical Signaling Pathways. *PLoS One*. 2015 Dec 11;10(12):e0144541.
- [3]. Mohd Nizam Mansoori, et al. Medicarpin prevents arthritis in post-menopausal conditions by arresting the expansion of TH17 cells and pro-inflammatory cytokines. *Int Immunopharmacol*. 2020 Feb 22;82:106299.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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