

## Dodoviscin J

### Chemical Properties

CAS No.:	1372527-42-8
Formula:	C <sub>22</sub> H <sub>22</sub> O <sub>7</sub>
Molecular Weight:	398.4
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

### Biological Description

Description	Dodoviscin J can promote adipocyte differentiation as characterized by increased triglyceride levels in 3T3L1 cells.
Targets(IC <sub>50</sub> )	GLUT: None
In vitro	METHODS AND RESULTS: Ten new isoprenylated flavonol derivatives, dodoviscin A(1), dodoviscin B(2), dodoviscin C(3), dodoviscin D(4), dodoviscin E(5), dodoviscin F(6), dodoviscin G(7), Dodoviscin H(8), Dodoviscin I (9), Dodoviscin J (10), and seven known compounds (11-17) were isolated from the aerial parts of <i>Dodonaea viscosa</i> . CONCLUSIONS: Compounds 1, 2, 4, 5, 7-9, 5,7,4'-trihydroxy-3',5'-bis(3-methyl-2-buten-1-yl)-3-methoxyflavone (11), 5,7,4'-trihydroxy-3',5'-bis(3-methyl-2-buten-1-yl)-3,6-dimethoxyflavone (12), 5,7,4'-trihydroxy-3'-(4-hydroxy-3-methylbutyl)-5'-(3-methyl-2-buten-1-yl)-3,6-dimethoxyflavone (13), sakuranetin (14), and blumeatin (15) promoted adipocyte differentiation as characterized by increased triglyceride levels in 3T3L1 cells. Compounds 1, 13, and 15 also enhanced the accumulation of lipid droplets and induced upregulation of the expression of the adipocyte-specific genes aP2 and GLUT4.

### Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble
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#### Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.510 mL	12.550 mL	25.100 mL
5 mM	0.502 mL	2.510 mL	5.020 mL
10 mM	0.251 mL	1.255 mL	2.510 mL
50 mM	0.050 mL	0.251 mL	0.502 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

#### Reference

1. Isoprenylated flavonoid and adipogenesis-promoting constituents of *Dodonaea viscosa*. *J Nat Prod.* 2012 Apr 27;75(4):699-706.

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