

## Dalbergiphenol

**Chemical Properties**

CAS No.:	52811-31-1
Formula:	C17H18O3
Molecular Weight:	270.32
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

**Biological Description**

Description	Dalbergiphenol shows antiosteoporotic activity, dalbergiphenol treatment can effectively prevent OVX-induced increase in bone loss and decrease in bone strength possibly by increasing osteoblastic activities and by decreasing osteoclastic activities.
Targets(IC <sub>50</sub> )	Others: None
In vitro	The present study was undertaken to investigate and rationalize the in vitro antiosteoporotic activity of neoflavonoids, isolated from Dalbergia sissoo heartwood. METHODS AND RESULTS: Neoflavonoids were isolated using extensive column chromatography and identified as dalsissoal (1) a new compound and cearoin (2), dalbergin (3), 4-methoxy dalbergin (4), Dalbergiphenol (5), dalbergichromene (6), methyl dalbergin (7) and latinone (8) as known compounds by comparison their spectroscopic data with those reported in the literature. CONCLUSIONS: Among the screened compounds, compounds 1, 3, 5-8 significantly increased proliferation as assessed by alkaline phosphatase activity and mineralization in calvarial osteoblast cells.

**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	3.699 mL	18.497 mL	36.993 mL
5 mM	0.740 mL	3.699 mL	7.399 mL
10 mM	0.370 mL	1.850 mL	3.699 mL
50 mM	0.074 mL	0.370 mL	0.740 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. Neoflavonoids as potential osteogenic agents from Dalbergia sissoo heartwood. Bioorg Med Chem Lett. 2014 Jun 15;24(12):2664-8.

Inhibitors · Natural Compounds · Compound Libraries

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