

## Phlorigidoside C

## Chemical Properties

CAS No. :	276691-32-8
Formula:	C <sub>17</sub> H <sub>24</sub> O <sub>11</sub>
Molecular Weight:	404.37
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.

## Biological Description

Description	Phlorigidoside C is a natural cycloartenol glycoside isolated from the Tibetan medicinal plant <i>Lamiophlomis rotata</i> that exerts anti-rheumatoid arthritis (RA) effects by modulating the OPG/RANKL/NF-κB pathway.
Targets(IC50)	NF-κB,RANKL/RANK
In vivo	Phlorigidoside C alleviates joint swelling and tissue damage in adjuvant-induced arthritic rats. It exerts bone protection by modulating the OPG/RANKL/NF-κB pathway—upregulating OPG, suppressing RANKL, and reducing osteoclast activation, thereby preventing cartilage degradation and bone loss [1].

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.473 mL	12.3649 mL	24.7298 mL
5 mM	0.4946 mL	2.473 mL	4.946 mL
10 mM	0.2473 mL	1.2365 mL	2.473 mL
50 mM	0.0495 mL	0.2473 mL	0.4946 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

## Reference

Xiaohui Zhao, et al. Anti-rheumatoid arthritis effects of iridoid glucosides from *Lamiophlomis rotata* (Benth.) kudo on adjuvant-induced arthritis in rats by OPG/RANKL/NF-κB signaling pathways. *J Ethnopharmacol.* 2021 Feb 10; 266:113402.

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