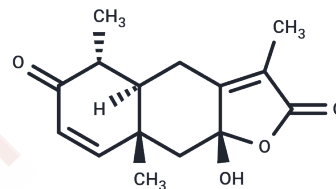


## Eudebeiolide B

## Chemical Properties

CAS No. :	1934299-51-0
Formula:	C <sub>15</sub> H <sub>18</sub> O <sub>4</sub>
Molecular Weight:	262.3
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	Eudebeiolide B, isolated from <i>Salvia plebeia</i> R. Br., impedes osteoclastogenesis by modulating RANKL-induced NF- $\kappa$ B, c-Fos, and calcium signaling pathways, and is applicable in the study of osteoclast-related diseases [1].
Targets(IC50)	NF- $\kappa$ B,Akt,Phosphatase
In vitro	Eudebeiolide B (1-30 $\mu$ M, 1 hour) inhibits RANKL-induced cellular differentiation in murine bone marrow-derived macrophages, suppressing the expression of osteoclastogenesis-related marker genes and RANKL-mediated cell signaling [1].
In vivo	Eudebeiolide B (5 or 10 mg/kg, administered orally once a day for 6 weeks) prevented bone loss in an ovariectomized (OVX) mouse model caused by bilateral ovariectomy (OVX) [1].

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.8124 mL	19.0621 mL	38.1243 mL
5 mM	0.7625 mL	3.8124 mL	7.6249 mL
10 mM	0.3812 mL	1.9062 mL	3.8124 mL
50 mM	0.0762 mL	0.3812 mL	0.7625 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.

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