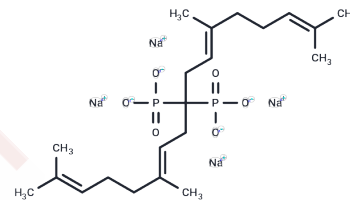


## Digeranyl bisphosphonate

## Chemical Properties

CAS No. :	878143-03-4
Formula:	C <sub>21</sub> H <sub>34</sub> Na <sub>4</sub> O <sub>6</sub> P <sub>2</sub>
Molecular Weight:	536.4
Appearance:	no data available
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year



## Biological Description

Description	Digeranyl bisphosphonate (DGBP) is a potent geranylgeranyl pyrophosphate (GGPP) synthase inhibitor that impedes the geranyl pyrophosphorylation of Rac1 and induces autophagy without causing apoptosis.
Targets(IC50)	Rho,Ras

## Solubility Information

Solubility	DMSO: < 0.5 mg/mL (Insoluble) Ethanol: < 0.5 mg/mL (Insoluble) H <sub>2</sub> O: 1.67 mg/mL (3.11 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.8643 mL	9.3214 mL	18.6428 mL
5 mM	0.3729 mL	1.8643 mL	3.7286 mL
10 mM	0.1864 mL	0.9321 mL	1.8643 mL
50 mM	0.0373 mL	0.1864 mL	0.3729 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.

## Reference

Osborn-Heaford HL, et al. Targeting the isoprenoid pathway to abrogate progression of pulmonary fibrosis. Free Radic Biol Med. 2015 Sep;86:47-56.

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