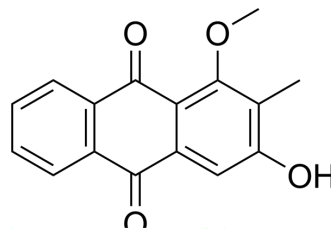


## Rubiadin-1-methyl ether

<b>Cat. No.:</b>	HY-N1956		
<b>CAS No.:</b>	7460-43-7		
<b>Molecular Formula:</b>	C <sub>16</sub> H <sub>12</sub> O <sub>4</sub>		
<b>Molecular Weight:</b>	268.26		
<b>Target:</b>	NF-κB		
<b>Pathway:</b>	NF-κB		
<b>Storage:</b>	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : ≥ 125 mg/mL (465.97 mM)  
 \* "≥" means soluble, but saturation unknown.

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	3.7277 mL	18.6386 mL	37.2773 mL
	5 mM	0.7455 mL	3.7277 mL	7.4555 mL
	10 mM	0.3728 mL	1.8639 mL	3.7277 mL

Please refer to the solubility information to select the appropriate solvent.

### BIOLOGICAL ACTIVITY

#### Description

Rubiadin-1-methyl ether is a natural anthraquinone isolated from *Morinda officinalis* How, and inhibits osteoclastic bone resorption via inhibition on the phosphorylation of NF-κB p65 and the degradation of IκBα as well as decrease in the nuclear translocation of p65<sup>[1]</sup>.

#### IC<sub>50</sub> & Target

p65

### REFERENCES

[1]. He YQ, et al. Rubiadin-1-methyl ether from *Morinda officinalis* How. Inhibits osteoclastogenesis through blocking RANKL-induced NF-κB pathway. *Biochem Biophys Res Commun.* 2018 Dec 2;506(4):927-931.

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**Caution: Product has not been fully validated for medical applications. For research use only.**

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