

## Barbigerone

## Chemical Properties

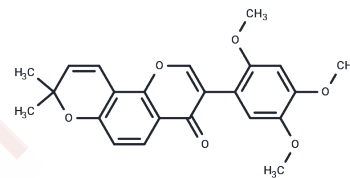
CAS No. : 75425-27-3

Formula: C<sub>23</sub>H<sub>22</sub>O<sub>6</sub>

Molecular Weight: 394.42

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	Barbigerone is a tumor angiogenesis, growth, and metastasis inhibitor in melanoma.
Targets(IC50)	Apoptosis

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.5354 mL	12.6768 mL	25.3537 mL
5 mM	0.5071 mL	2.5354 mL	5.0707 mL
10 mM	0.2535 mL	1.2677 mL	2.5354 mL
50 mM	0.0507 mL	0.2535 mL	0.5071 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

Li X, Wan L, Wang F, Pei H, Zheng L, Wu W, Ye H, Wang Y, Chen L. Barbigerone reverses multidrug resistance in breast MCF-7/ADR cells. *Phytother Res.* 2018 Apr;32(4):733-740. doi: 10.1002/ptr.6026. Epub 2018 Jan 24. PubMed PMID: 29368443.

Wei Z, Yang Y, Xie C, Li C, Wang G, Ma L, Xiang M, Sun J, Wei Y, Chen L. Synthesis and biological evaluation of pyranoisoflavone derivatives as anti-inflammatory agents. *Fitoterapia.* 2014 Sep;97:172-83. doi: 10.1016/j.fitote.2014.06.002. Epub 2014 Jun 9. PubMed PMID: 24924289.

Wang G, Wang F, Cao D, Liu Y, Zhang R, Ye H, Li X, He L, Yang Z, Ma L, Peng A, Xiang M, Wei Y, Chen L. Synthesis, structure-activity relationships and biological evaluation of barbigerone analogues as anti-proliferative and anti-angiogenesis agents. *Bioorg Med Chem Lett.* 2014 Jul 15;24(14):3158-63. doi: 10.1016/j.bmcl.2014.04.121. Epub 2014 May 16. PubMed PMID: 24863745.

Yang JH, Hu J, Wan L, Chen LJ. Barbigerone inhibits tumor angiogenesis, growth and metastasis in melanoma. *Asian Pac J Cancer Prev.* 2014;15(1):167-74. PubMed PMID: 24528020.

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