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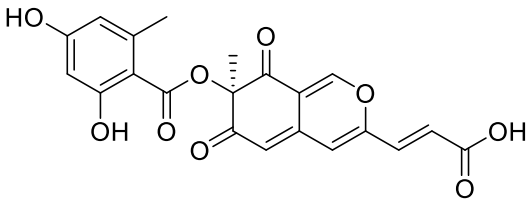
PRODUCT DATA SHEET

Mitorubrinic acid

Code No.: **BIA-M2969**

Pack sizes: **1 mg, 5 mg**



Synonyms :

Specifications

CAS #	:	**58958-07-9**
Molecular Formula	:	**$C_{21}H_{16}O_9$**
Molecular Weight	:	**412.4**
Source	:	***Talaromyces* sp.**
Appearance	:	**Orange solid**
Purity	:	**>95% by HPLC**
Long Term Storage	:	**-20°C**
Solubility	:	**Soluble in ethanol, methanol, DMF or DMSO.**

Application Notes

Mitorubrinic acid was isolated from the phytotoxic fungus, Penicillium funiculosum. Mitorubrinic acid was patented in Japan in 1996 as a dihydrofolate reductase inhibitor for the treatment of protozoal diseases. Mitorubrinic acid shows weak inhibitory activity against Plasmodium falciparum dihydroorotate dehydrogenase (PfDHODH). Mitorubrinic acid inhibits trypsin with an IC50 41 µmol/l.

References

1. Mitorubrinic acid and related compounds from a strain of Penicillium funiculosum. Locci R. et al. Gioron Microbiol. 1967, 15, 92.
2. Dihydrofolate reductase inhibitors containing mitorubrin compounds for protozoiasis. Hayashi K. et al. JP08217673 A 1996-08-27.
3. Microbial inhibitors active against Plasmodium falciparum dihydroorotate dehydrogenase derived from an Indonesian soil fungus, Talaromyces pinophilus BioMCC-f.T.3979. Pramisandi A. et al. J Gen Appl Microbiol. 2020, 66, 273.
4. Factors affecting the production of (-)-mitorubrinic acid by Penicillium funiculosum. Lesová K. et al. J Basic Microbiol. 2000, 40, 369.

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