

Product Data Sheet

Product Name: Tanzawaic Acid B

Cat. No.: GC91547

Chemical Properties

Cas. No. 169181-33-3

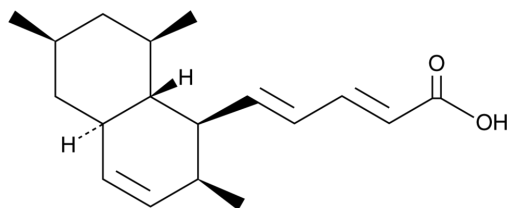
Formula $C_{18}H_{26}O_2$ M.Wt 274.4

Solubility Dichloromethane: soluble, DMSO: Storage $-20^{\circ}C$
soluble, Ethanol: soluble, Methanol:
soluble

General tips For obtaining a higher solubility, please warm the tube at $37^{\circ}C$ and shake it in the ultrasonic bath for a while. Stock solution can be stored below $-20^{\circ}C$ for several months.

Shipping Condition Evaluation sample solution: ship with blue ice. All other available size: ship with RT, or blue ice upon request.

Structure



Background

Tanzawaic acid B is a fungal metabolite that has been found in *Penicillium* and has diverse biological activities.^{[1],[2]} It inhibits protein tyrosine phosphatase 1B (PTP1B) in a cell-free assay ($IC_{50} = 8.2 \mu M$) and LPS-induced production of nitric oxide (NO) in BV-2 microglia ($IC_{50} = 42.5 \mu M$).^[1]

Tanzawaic acid B is active against chloroquine-resistant and chloroquine-sensitive *P. falciparum* strains ($IC_{50}s = 78.5$ and $79.2 \mu M$, respectively).^[2]

References:

[1]. Quang, T.H., N.T.T., N., Ko, W., et al. Tanzawaic acid derivatives from a marine isolate of *Penicillium* sp. (SF-6013) with anti-inflammatory and PTP1B inhibitory activities. *Bioorg. Med. Chem. Lett.* 24(24):5787-5791 (2014).

[2]. Matsuo, H., Hokari, R., Ishiyama, A., et al. Hatsusamides A and B: Two new metabolites produced

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

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by the deep-sea-derived fungal strain *Penicillium steckii* FKJ-0213Mar Drugs18(10)513(2020).

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