

Product Data Sheet

Product Name: Mensacarcin

Cat. No.: GC47620

Chemical Properties

Cas. No. 808750-39-2

SMILES CO[C@@H]1[C@@]23[C@](C(C4=CC=CC(OC)=C41)=O)([C@@H]([C@@H]([C@](O)([C@@H]3O)C([C@H]5[C@@H](O5)C)=O)C)O)O2

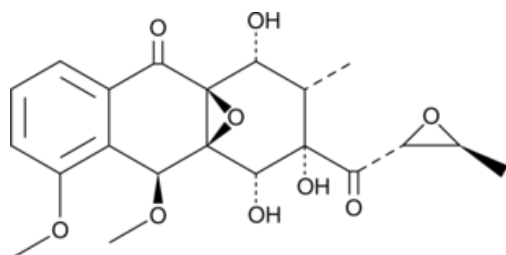
Formula C₂₁H₂₄O₉ M.Wt 420.4

Solubility DMSO: soluble, Methanol: soluble Storage Store at -20°C

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

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

Structure



Background

Mensacarcin is a bacterial metabolite that has been found in *S. bottropensis* and has anticancer activity.^{1,2} It is cytostatic in the NCI-60 panel of cancer cell lines (mean IC₅₀ = 1.3 μM) and cytotoxic to HepG2, HM02, KATO III, and MCF-7 cells (IC₅₀s = 0.4-50 μM).¹ Mensacarcin induces apoptosis in SK-MEL-28 and SK-MEL-5 melanoma cells.²

1. Maier, S., Pflüger, T., Loesgen, S., et al. Insights into the bioactivity of mensacarcin and epoxide formation by MsnO8. *Chembiochem* 15(5):749-756 (2014)
2. Plitzko, B., Kaweesa, E.N., and Loesgen, S. The natural product mensacarcin induces mitochondrial toxicity and apoptosis in melanoma cells. *J. Biol. Chem.* 292(51):21102-21116 (2017)

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA