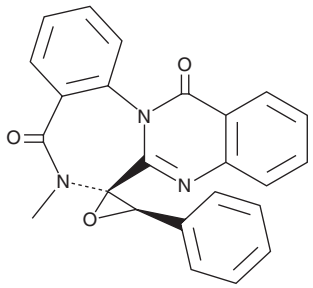
PRODUCT INFORMATION

Benzomalvin C

Item No. 22064

CAS Registry No.: 157047-98-8
Formal Name: (2R,3S)-*rel*-(+)-6'-methyl-3-phenyl-spiro[oxirane-2,7'(13'H)-quinazolino[3,2-a][1,4]benzodiazepine]-5',13'(6'H)-dione
MF: $C_{24}H_{17}N_3O_3$
FW: 395.4
Purity: ≥95%
Supplied as: A solid
Storage: -20°C
Stability: ≥4 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

Benzomalvin C is supplied as a solid. A stock solution may be made by dissolving the benzomalvin C in the solvent of choice, which should be purged with an inert gas. Benzomalvin C is soluble in organic solvents such as ethanol, methanol, DMSO, and dimethyl formamide.

Description

Benzomalvin C is a weak antagonist of the neurokinin-1 (NK_1) receptor inhibiting binding of substance P by 46% when used at 100 µg/ml *in vitro*.[1] It is also a weak inhibitor of indolamine 2,3-dioxygenase (IDO) with an IC_{50} value of 130 µM for recombinant IDO.[2] It was isolated from *Penicillium* and contains an epoxide group at C-19 and C-20, which is not present in benzomalvins A, B, or E.

References

1. Sun, H.H., Barrow, C.J., Sedlock, D.M., *et al.* Benzomalvins, new substance P inhibitors from a *Penicillium* sp. *J. Antibiot. (Tokyo)* **47(5)**, 515-522 (1994).
2. Jang, J.-P., Jang, J.-H., Soung, N.-K., *et al.* Benzomalvin E, an indoleamine 2,3-dioxygenase inhibitor isolated from *Penicillium* sp. FN070315. *J. Antibiot. (Tokyo)* **65(4)**, 215-217 (2012).

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