Rebeccamycin
Item No. 17914

CAS Registry No.: 93908-02-2
Formal Name: 1,11-dichloro-12,13-dihydro-12-(4-O-methyl-β-D-glucopyranosyl)-5H-indolo[2,3-a]pyrrolo[3,4-c]carbazole-5,7(6H)-dione
Synonyms: BRN 4732638, NSC 359079
MF: C_{27}H_{21}Cl_{2}N_{3}O_{7}
FW: 570.4
Purity: ≥99%
Supplied as: A lyophilisate
Storage: -20°C
Stability: ≥2 years

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

Laboratory Procedures

Rebeccamycin is supplied as a lyophilisate. A stock solution may be made by dissolving the rebeccamycin in the solvent of choice. Rebeccamycin is soluble in organic solvents such as DMSO and dimethyl formamide, which should be purged with an inert gas.

Description

Rebeccamycin is an indolocarbazole antibiotic produced by S. aerocolonigens ATCC39243 that weakly inhibits DNA topoisomerase I. It is cytotoxic to human lung adenocarcinoma, colon carcinoma, and nasopharyngeal carcinoma cell lines (IC_{50} range from 0.4-98 μM), producing single-strand breaks in the DNA of these tumor cells.

References