

**Product Name:** Resistoflavine

**Product Number:** R025

**CAS Number:** 29706-96-5

**Molecular Formula:**  $C_{22}H_{16}O_7$

**Molecular Weight:** 392.4

**Appearance:** Brown solid

**Storage Conditions:** -20°C

**Description:** Resistoflavine is a rare, boat-shaped, pentacyclic polyketide isolated from several species of *Streptomyces*, often co-produced with resistomycin. Resistoflavine exhibits weak antibacterial activity against Gram positive and Gram negative bacteria and exhibits potent cytotoxic activity against tumor cell lines in vitro. Resistoflavine inhibits growth, and nucleic acid and protein synthesis in *Bacillus subtilis*.

Resistoflavine is soluble in DMF and DMSO and is moderately soluble in methanol or ethanol.

**References:** Zur konstitution des antibiotikums resistoflavin. Eckardt K. et al. , Tetrahedron 1970, 26, 5875.

Effect of the antibiotics resistomycin and resistoflavin on growth, nucleic acid and protein synthesis in *Bacillus subtilis*. Haupt I. & Eckardt K., Z Allg Mikrobiol. 1972, 12, 575.

Resistoflavine, cytotoxic compound from a marine actinomycete, *Streptomyces chibaensis* AUBN1/7. Gorajana A. et al. , Microbiol Res. 2007, 162, 322.