Product Name: Gilvocarcin V

Product Number: G056

CAS Number: 77879-90-4

Molecular Formula: C_{27}H_{26}O_{9}

Molecular Weight: 494.5

Appearance: Yellow crystals

Storage Conditions: -20°C

Description: Gilvocarcin V is the major analogue of a complex of C-glycoside antitumor actives isolated from a Streptomyces sp. Gilvocarcin V contains a vinyl group in the 8-position, and is the most potent analogue of the complex. It is thought to act as an inhibitor of the catalytic activity of human topoisomerase II. The metabolite displays potent antibacterial, antifungal, antiviral and antitumor activity. Recent research suggests that the gilvocarcins act as photoactivated cross-linkers of DNA to histones.

Gilvocarcin V is soluble in DMF or DMSO. Moderately soluble in methanol or ethanol. Poor water solubility.

References:


Histone H3 and heat shock protein GRP78 are selectively cross-linked to DNA by photoactivated gilvocarcin V in human fibroblasts. Matsumoto A. & Hanawalt P.C. Cancer Res. 2000, 60, 3921.


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