

**Product Name:** Gilvocarcin M

**Product Number:** G055

**CAS Number:** 77879-89-1

**Molecular Formula:**  $C_{26}H_{26}O_9$

**Molecular Weight:** 482.5

**Appearance:** Yellow Lyophilisate

**Storage Conditions:** -20°C

**Description:** Gilvocarcin M is the minor analogue of a complex of C-glycoside antitumor actives isolated from a *Streptomyces* sp.. Gilvocarcin M contains a methyl group in the 8-position, and is less active than the vinyl analogue (gilvocarcin V), which is thought to act as an inhibitor of human topoisomerase II. Gilvocarcin M displays potent antibacterial, antifungal, antiviral and antitumor activity. Recent research suggests that the gilvocarcins act as photoactivated cross-linkers of DNA to histones.

Gilvocarcin M 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.

Antitumor agents from *Streptomyces anandii*: gilvocarcins V, M and E. Balitz DM et al. . J Antibiot (Tokyo) 1981, 34, 1544-1555.