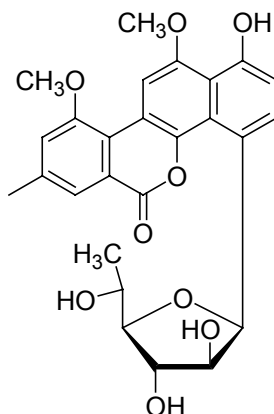


Gilvocarcin M

Code: **BIA-G1034**

Pack sizes: **0.5 mg, 2.5 mg**



Synonyms : **Anandimycin B, Toromycin B, Antibiotic 1072A**

Specifications

CAS #	: 77879-89-1
Molecular Formula	: C₂₆H₂₆O₉
Molecular Weight	: 482.5
Source	: <i>Streptomyces</i> sp. MST-AS5353
Appearance	: Yellow Lyophilisate
Purity	: > 95% by HPLC
Long Term Storage	: -20°C, protect from light
Solubility	: Soluble in DMF or DMSO. Moderately soluble in methanol or ethanol.

Application Notes

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 on the gilvocarcins suggests that they act as photoactivated crosslinkers of DNA to histones.

References

1. 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.
2. Antitumor agents from *Streptomyces anandii*: gilvocarcins V, M and E. Balitz D.M. et al.. *J Antibiot. (Tokyo)* **1981**, 34, 1544-1555.