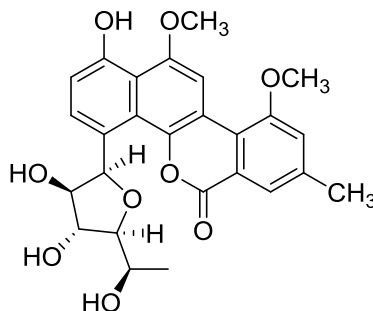


Gilvocarcin M

Code No.: **BIA-G1034**

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



Synonyms : Anandimycin B, Toromycin B, 1072A

Specifications

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

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 suggests that the gilvocarcins act as photoactivated cross-linkers 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 DM et al., *J Antibiot (Tokyo)* 1981, 34, 1544-1555.