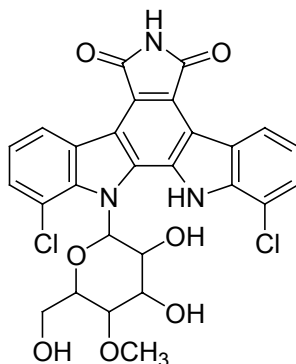


Rebeccamycin

Code: **BIA-R1075**

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



Synonyms :

Specifications

CAS #	: 93908-02-2
Molecular Formula	: C₂₇H₂₁Cl₂N₃O₇
Molecular Weight	: 570.4
Source	: <i>Lechevalieria</i> sp. MST-AS5787
Appearance	: Dull yellow lyophilisate
Purity	: > 99% by HPLC
Long Term Storage	: +4°C
Solubility	: Soluble in THF or DMSO. Poorly soluble in methanol and water.

Application Notes

Rebeccamycin is an indolocarbazole isolated from *Lechevalieria aerocolonigenes*. It displays selective antitumour activity against several cell lines. Rebeccamycin acts by strong DNA intercalation resulting in the potent catalytic inhibition of both topoisomerases I and II. Analogues of rebeccamycin are currently in several clinical trials for cancer therapy.

References

1. Discovery of antitumor indolocarbazoles: rebeccamycin, NSC 655649, and fluorindolocarbazoles. Long B.H. et al. *Curr. Med. Chem. Anticancer Agents* **2002**, 2, 255.
2. Active site mutations in DNA topoisomerase I distinguish the cytotoxic activities of camptothecin and the indolocarbazole, rebeccamycin. Woo M.H. et al. *J. Biol. Chem.* **2002**, 277, 3813.
3. Production and biological activity of rebeccamycin, a novel antitumor agent. Bush J.A. et al. *J. Antibiot.* **1987**, 40, 668.