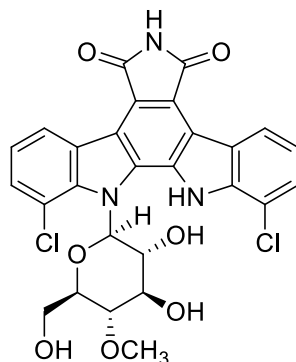


Rebeccamycin

Code No.: **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.
Appearance	: Dull 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

Rebeccamycin is an indolocarbazole isolated from *Lechevalieria aerocolonigenes*. Rebeccamycin displays selective antitumor activity against several cell lines. Rebeccamycin's primary mechanism of action is via strong DNA intercalation resulting in the potent catalytic inhibition of both topoisomerases I and II. Analogues of rebeccamycin have been tested in clinical trials for cancer therapy.

References

1. Discovery of antitumor indolocarbazoles: rebeccamycin, NSC 655649, and fluoroindolocarbazoles. 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.