

Product Name:	Rebeccamycin
Product Number:	R021
CAS Number:	93908-02-2
Molecular Formula:	$C_{27}H_{21}Cl_2N_3O_7$
Molecular Weight:	570.4
Appearance:	Dull yellow lyophilisate
Storage Conditions:	-20°C
Description:	<p>Rebeccamycin is an indolocarbazole isolated from <i>Lechevalieria aerocolonigenes</i>. Rebeccamycin displays selective antitumor activity against several cell lines. Analogues of rebeccamycin have been tested in clinical trials for cancer therapy.</p> <p>Rebeccamycin is soluble in DMF and DMSO and is moderately soluble in methanol or ethanol.</p>
Mechanism of Action:	Rebeccamycin's primary mechanism of action is via strong DNA intercalation resulting in the potent catalytic inhibition of both topoisomerases I and II.
References:	<p>Discovery of antitumor indolocarbazoles: rebeccamycin, NSC 655649, and fluoroindolocarbazoles. Long B. H., et al. , Curr. Med. Chem. Anticancer Agents, 2002, 2, 255.</p> <p>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.</p> <p>Production and biological activity of rebeccamycin, a novel antitumor agent. Bush J. A., et al. , J. Antibiot., 1987, 40, 668.</p>