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## **Product Information**

Product ID CAS No. Chemical Name Synonym	I4000 36531-78-9		
Formula Wt. Melting Point Purity	≥98% Soluble in chloroform 1 mg/mL, requires gentle heating and sonication; Soluble in methanol	<b>Product ID</b> 14000 14000	<i>ites available upon request</i> <b>Size</b> 0.5 mg 1 mg
Store Temp Ship Temp	-20°C	14000	5 mg
	Ikarugamycin is an antibiotic initially produced by species of <i>Streptomyces</i> that e anticancer activities. Ikarugamycin prevents formation of the bacterial 70S ribos vitro, ikarugamycin inhibits CCP-dependent phagocytosis, preventing PMA-induce	omal subunit,	inhibiting protein translation. In

ikarugamycin inhibits uptake of oxidized LDL, preventing accumulation of cholesterol ester in macrophages.

**References** Popescu R, Heiss EH, Ferk F, et al. Ikarugamycin induces DNA damage, intracellular calcium increase, p38 MAP kinase activation and apoptosis in HL-60 human promyelocytic leukemia cells. Mutat Res. 2011 May 10;709-710:60-6. PMID: 21392513.

Luo T, Fredericksen BL, Hasumi K, et al. Human immunodeficiency virus type 1 Nef-induced CD4 cell surface downregulation is inhibited by ikarugamycin. J Virol. 2001 Mar;75(5):2488-92. PMID: 11160755.

Hasumi K, Shinohara C, Naganuma S, et al. Inhibition of the uptake of oxidized low-density lipoprotein in macrophage J774 by the antibiotic ikarugamycin. Eur J Biochem. 1992 Apr 15;205(2):841-6. PMID: 1572375.

Jomon K, Kuroda Y, Ajisaka M, et al. A new antibiotic, ikarugamycin. J Antibiot (Tokyo). 1972 May;25(5):271-80. PMID: 4625358.

Caution: This product is intended for laboratory and research use only. It is not for human or drug use.