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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	Product ID 14000 14000	<i>ites available upon request</i> Size 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.