



LKT Laboratories, Inc.

Herbimycin A

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Product Information

Product ID H1669

CAS No. 70563-58-5

Chemical Name

Synonym Herbimycin

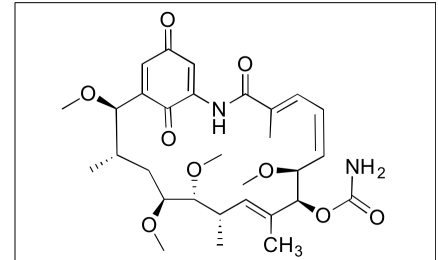
Formula $C_{30}H_{42}N_2O_9$

Formula Wt. 574.66

Melting Point

Purity $\geq 98\%$

Solubility Soluble in DMSO.



Bulk quantities available upon request

Product ID	Size
H1669	100 μ g
H1669	1 mg

Store Temp $-20^{\circ}C$

Ship Temp Ambient

Description Herbimycin A is a benzoquinone ansamycin antibiotic that also exhibits anticancer activity. Herbimycin A inhibits HSP90, PKC, and some Src family kinases such as Src and Bcr-Abl. Herbimycin A inhibits cell proliferation in various in vitro cancer models, including chronic myelogenous leukemia (CML).

References Kasai S, Kikuchi H. The inhibitory mechanisms of the tyrosine kinase inhibitors herbimycin a, genistein, and tyrphostin B48 with regard to the function of the aryl hydrocarbon receptor in Caco-2 cells. *Biosci Biotechnol Biochem.* 2010;74(1):36-43. PMID: 20057149.

Napolitano M, Bravo E. Activation of protein kinase C by phorbol esters in human macrophages reduces the metabolism of modified LDL by down-regulation of scavenger receptor activity. *Int J Biochem Cell Biol.* 2003 Jul;35(7):1127-43. PMID: 12672483.

Mucha DR, Myers CL, Schaeffer RC Jr. Endothelial contraction and monolayer hyperpermeability are regulated by Src kinase. *Am J Physiol Heart Circ Physiol.* 2003 Mar;284(3):H994-H1002. PMID: 12456392.

Ren H, Chen S, Lu D. Herbimycin A enhances apoptotic effect of chemotherapeutic drugs on K562 cells. *Chin Med J (Engl).* 1998 Aug;111(8):678-81. PMID: 11245017.

Fukazawa H, Li PM, Yamamoto C, et al. Specific inhibition of cytoplasmic protein tyrosine kinases by herbimycin A in vitro. *Biochem Pharmacol.* 1991 Oct 9;42(9):1661-71. PMID: 1656993.

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