



LKT Laboratories, Inc.

Fumagillin

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Product Information

Product ID F8048

CAS No. 23110-15-8

Chemical Name [3R-[3 α ,4 α (2R*,3R*),5B,6B(all-E)]]-2,4,6,8-Decatetra- enedioic acid, mono[5-methoxy-4-[2-methyl-3-(3-methyl-2-butenyl)oxiranyl]-1-oxaspiro[2.5]oct-6-yl] ester

Synonym Amebacilin, Fugillin, Fumadil B; Fumidil

Formula C₂₆H₃₄O₇

Formula Wt. 458.54

Melting Point 194-195 °C

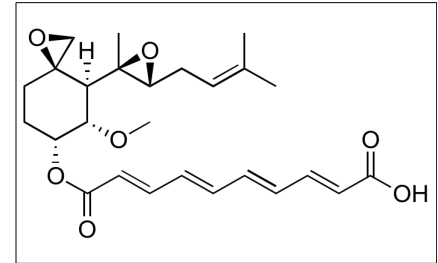
Purity ≥98%

Solubility Soluble in most organic solvents. Practically insoluble in water, dilute acids and saturated hydrocarbons.

Store Temp 4 °C

Ship Temp Ambient

Description Fumagillin is an antimicrobial compound initially produced by species of *Aspergillus* that exhibits anti-parasitic, antimalarial, anti-fibrotic, anti-angiogenic, and anticancer chemotherapeutic activities. Fumagillin is clinically used to treat microsporidiosis and displays efficacy against *Plasmodium*, *Nosema*, and *Enterocytozoon*. In vivo, fumagillin decreases pulmonary fibrosis, pulmonary hypertension, and ventricular remodeling. In cellular and animal models of colorectal cancer, fumagillin inhibits type 2 methionine aminopeptidase, preventing tube and vessel formation and well as cell proliferation, migration, and adhesion; it also decreases tumor mass.



Bulk quantities available upon request

Product ID	Size
F8048	1 mg
F8048	5 mg

References Kass DJ, Rattigan E, Kahloon R, et al. Early treatment with fumagillin, an inhibitor of methionine aminopeptidase-2, prevents Pulmonary Hypertension in monocrotaline-injured rats. *PLoS One*. 2012;7(4):e35388. PMID: 22509410.

Champion L, Durrbach A, Lang P, et al. Fumagillin for treatment of intestinal microsporidiosis in renal transplant recipients. *Am J Transplant*. 2010 Aug;10(8):1925-30. PMID: 20636462.

Arico-Muendel C, Centrella PA, Contonio BD, et al. Antiparasitic activities of novel, orally available fumagillin analogs. *Bioorg Med Chem Lett*. 2009 Sep 1;19(17):5128-31. PMID: 19648008.

Hou L, Mori D, Takase Y, et al. Fumagillin inhibits colorectal cancer growth and metastasis in mice: in vivo and in vitro study of anti-angiogenesis. *Pathol Int*. 2009 Jul;59(7):448-61. PMID: 19563408.

Chen X, Xie S, Bhat S, et al. Fumagillin and fumarranol interact with *P. falciparum* methionine aminopeptidase 2 and inhibit malaria parasite growth in vitro and in vivo. *Chem Biol*. 2009 Feb 27;16(2):193-202. PMID: 19246010.

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