



LKT Laboratories, Inc.

Aloe Emodin

Phone: 888-558-5227
651-644-8424
Fax: 888-558-7329
Email: getinfo@lktlabs.com
Web: lktlabs.com

Product Information

Product ID A4617

CAS No. 481-72-1

Chemical Name 1,8-Dihydroxy-3-(hydroxymethyl)-9,10-anthracenedione

Synonym

Formula C₁₅H₁₀O₅

Formula Wt. 270.24

Melting Point 223-224°C

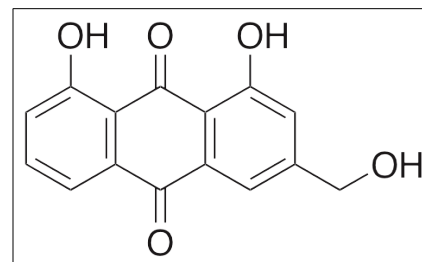
Purity ≥98%

Solubility Soluble in water (partly), hot alcohol, methanol, chloroform, and DMSO (50 mg/ml)

Store Temp -20°C

Ship Temp Ambient

Description Aloe emodin is an anthraquinone found in the aloe plant. Aloe emodin is most commonly known for its stimulant-laxative action, but also shows antioxidative, anticancer chemotherapeutic, and anti-angiogenic activity. This compound activates CFTR Cl⁻ channels in the colon, potentially increasing fluid secretion and resulting in laxative activity. Aloe emodin acts on a number of targets in cellular models of cancer, including p65Ick, ERα, NF-κB, and mTORC2. Additionally, aloe emodin induces apoptosis in glioma models through disruption of the mitochondria membrane potential.



Pricing and Availability

Bulk quantities available upon request

Product ID	Size	List Price
A4617	25 mg	\$71.50
A4617	100 mg	\$204.30
A4617	250 mg	\$357.30

References Ismail S, Haris K, Abdul Ghani AR, et al. Enhanced induction of cell cycle arrest and apoptosis via the mitochondrial membrane potential disruption in human U87 malignant glioma cells by aloe emodin. J Asian Nat Prod Res. 2013 Jul 22. [Epub ahead of print]. PMID: 23869465.

Huang PH, Huang CY, Chen MC, et al. Emodin and Aloe-Emodin Suppress Breast Cancer Cell Proliferation through ER α Inhibition. Evid Based Complement Alternat Med. 2013; Epub 2013 Jun 24. PMID: 23864887.

Zhang W, Chen H, Liu DL, et al. Emodin sensitizes the gemcitabine-resistant cell line Bxpc-3/Gem to gemcitabine via downregulation of NF-κB and its regulated targets. Int J Oncol. 2013 Apr;42(4):1189-96. PMID: 23440366.

Liu K, Park C, Li S, et al. Aloe-emodin suppresses prostate cancer by targeting the mTOR complex 2. Carcinogenesis. 2012 Jul;33(7):1406-11. PMID: 22532249.

Yang H, Xu LN, He CY, et al. CFTR chloride channel as a molecular target of anthraquinone compounds in herbal laxatives. Acta Pharmacol Sin. 2011 Jun;32(6):834-9. PMID: 21602836.

Srinivas G, Babykutty S, Sathiadevan PP, et al. Molecular mechanism of emodin action: transition from laxative ingredient to an antitumor agent. Med Res Rev. 2007 Sep;27(5):591-608. PMID: 17019678.

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