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## **Product Information**

Product ID A5373 CAS No. 22862-76-6

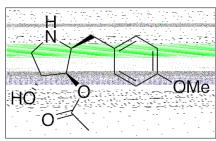
Chemical Name 1,4,5-Trideoxy-1,4-imino-5-(p-methoxyphenyl)-D-xylo-pentitol

3-acetate

Svnonvm Flagecidin

Formula C<sub>14</sub>H<sub>19</sub>NO<sub>4</sub> Formula Wt. 265.31 Melting Point 140-141°C Purity ≥98%

**Solubility** Moderately soluble in water; sol in lower alcohols, esters or



## **Pricing and Availability**

Bulk quanitites available upon request

Product ID	Size	List Price
A5373	5 mg	\$44.20
A5373	25 mg	\$82.00
A5373	100 mg	\$212.00

Store Temp 4°C Ship Temp Ambient

**Description** Anisomycin is an antibiotic initially produced by *Streptomyces* that retains no antibacterial activity. Anisomycin exhibits neuromodulatory and anticancer chemotherapeutic activities. Anisomycin inhibits peptidyl transferase in the 80S ribosome, suppressing protein synthesis. In animal models, anisomycin decreases facilitation of fear conditioning pre-shock; it also inhibits consolidation and reconsolidation in incentive learning models. Anisomycin induces apoptosis and inhibits cell proliferation in breast cancer cells. Anisomycin also inhibits growth of Ehrlich ascites carcinoma cells in vitro and in vivo, inducing caspasedependent apoptosis and DNA strand breakage. Additionally, this compound inhibits expression of CDK2 and activates p53, p21, and p27, inducing cell cycle arrest and inhibiting cell proliferation in Jurkat T cells.

References Monaghan D, O'Connell E, Cruickshank FL, et al. Inhibition of protein synthesis and JNK activation are not required for cell death induced by anisomycin and anisomycin analogues. Biochem Biophys Res Commun. 2014 Jan 10;443(2):761-7. PMID: 24333448.

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You P, Xing F, Huo J, et al. In vitro and in vivo evaluation of anisomycin against Ehrlich ascites carcinoma. Oncol Rep. 2013 Jun;29(6):2227-36. PMID: 23525555.

Wang SH, Ostlund SB, Nader K, et al. Consolidation and reconsolidation of incentive learning in the amygdala. J Neurosci. 2005 Jan 26;25(4):830-5. PMID: 15673662.

Barrientos RM, O'Reilly RC, Rudy JW. Memory for context is impaired by injecting anisomycin into dorsal hippocampus following context exploration. Behav Brain Res. 2002 Aug 21;134(1-2):299-306. PMID: 12191817.

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