LKT Laboratories, Inc.

Aeroplysinin

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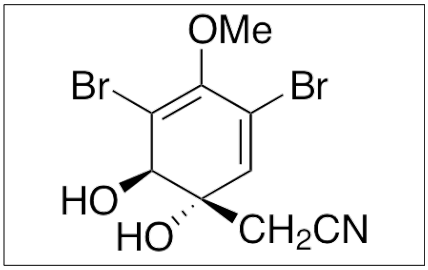
Product Information

Product ID A1865
CAS No. 28656-91-9
Chemical Name 3,5-dibromo-1,5-dihydroxy-4-methoxy-2,4-cyclo- hexadiene-1-acetonitrile

Synonym (1S-trans)-3,5-Dibromo-1,6-dihydroxy-4-methoxy-2,4-cyclohexadiene-1-acetonitrile

Formula $C_9H_9Br_2NO_3$
Formula Wt. 338.98
Melting Point
Purity ≥90%
Solubility Soluble in DMSO or ethanol.



Pricing and Availability

Bulk quanitites available upon request

Product ID	Size	List Price
A1865	100 µg	$75.00
A1865	5 x 100 µg	$325.00
A1865	1 mg	$575.00

Store Temp -20°C
Ship Temp Ambient

Description Aeroplysinin is a marine sponge alkaloid that exhibits antibiotic, anti-angiogenic, and anticancer activities. Aeroplysinin is used by *Aplysia* sponges as an antibacterial defense mechanism. In endothelial cells and monocytes, aeroplysinin decreases levels of MCP-1, TSP-1, MMP-1, COX-2, and IL-1α. Additionally, aeroplysinin inhibits capillary tube formation and cell growth and migration in vitro as well as angiogenesis in vivo. This compound also inhibits cell growth and causes cell death in Ehrlich ascites tumor cells. TEST!!!!!!

References

Martínez-Poveda B, García-Vilas JA, Cárdenas C, et al. The brominated compound aeroplysinin-1 inhibits proliferation and the expression of key pro- inflammatory molecules in human endothelial and monocyte cells. PLoS One. 2013;8(1):e55203. PMID: 23383109.

Rodríguez-Nieto S, González-Iriarte M, Carmona R, et al. Antiangiogenic activity of aeroplysinin-1, a brominated compound isolated from a marine sponge. FASEB J. 2002 Feb;16(2):261-3. PMID: 11772945.

Koulman A, Proksch P, Ebel R, et al. Cytotoxicity and mode of action of aeroplysinin-1 and a related dienonefrom the sponge Aplysina aerophoba. J Nat Prod. 1996 Jun;59(6):591-4. PMID: 8786366.