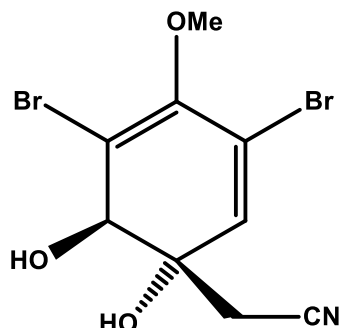


Product Data Sheet

(+)-Aeropylsinin-1



General description	Aeropylsinin-1 is a secondary metabolite that is contained in marine sponges and important for the chemical defense of these sessile invertebrates. It shows a wide antitumor activity and has antibiotic, antiangiogenic and antiviral effect as well.
Specific biological description	<ul style="list-style-type: none"> decreases levels of MCP-1, TSP-1, MMP-1, COX-2, and IL-1α in endothelial cell and monocytes inhibits angiogenesis <i>in vivo</i> causes cell death of BAE cells, HCT116 and HT1080 tumor cells as well as HeLaS3 cells shows antileukemic activity <i>in vivo</i> displays anticancer activity against L5178y mouse lymphoma cell (ED50: 0.5 μM), Friend erythroleukemia cells (ED50: 0.7 μM), human mamma carcinoma cells (ED50: 0.3 μM), and human colon carcinoma cells (ED50: 3.0 μM) <i>in vitro</i> inhibits the HIV-1 replication in a dose-dependent manner
Purity	> 99 % (HPLC)
Appearance	white to off-white solid

Product Properties

Chemical name (IUPAC)	2-[(1 <i>S</i> ,6 <i>R</i>)-3,5-Dibromo-1,6-dihydroxy-4-methoxycyclohexa-2,4-dien-1-yl]acetonitrile
Molecular formula	C ₉ H ₉ Br ₂ NO ₃
Molecular weight	338.98 g/mol
CAS Number	28656-91-9
PubChem CID	100308
SMILES	COC1=C(C(C(C=C1Br)(CC#N)O)O)Br
Solubility	ethanol, methanol and DMSO
Source	<i>Aplysina aerophoba</i>

Product Notes

Long term storage	-20 °C (protected from moisture)
Handling	Prepared solutions need to be stored in tightly sealed vials at -20 °C.

THIS PRODUCT IS SUITABLE FOR RESEARCH ONLY AND NOT SCHEDULED FOR DIAGNOSTIC OR THERAPEUTIC INDICATIONS. NOT TO BE USED ON HUMANS.

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