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DATASHEET

ET-18-OCH3

Product overview

Name	ET-18-OCH3
Cat No	HB0278
Biological action	Inhibitor
Purity	>95%
Description	Selective PLC inhibitor

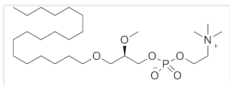
Biological Data

Biological description	Selective phosphatidylinositol phospholipase (PLC) inhibitor ($IC_{50} = 9.6 \mu M$). Inhibits mitochondrial respiration, ERK1/2 and p38 MAPK. Also activates Fas/CD95 death receptor. Displays antitumor and apoptosis-inducing properties.
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Solubility & Handling

Solubility overview	Soluble in ethanol or DMSO
Important	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

Chemical Data

Chemical name	Edelfosine; 1-octadecyl-2-O-methyl-glycero-3-phosphocholine
Molecular Weight	523.7
Chemical structure	
Molecular Formula	$C_{27}H_{58}NO_6P$
CAS Number	77286-66-9
PubChem identifier	6918215
SMILES	<chem>CCCCCCCCCCCCCCCCCOC[C@H](COP(=O)([O-])OCC[N+](C)(C)C)OC</chem>

References

ET-18-OCH3 (edelfosine): a selective antitumour lipid targeting apoptosis through intracellular activation of Fas/CD95 death receptor.

Mollinedo F *et al* (2004) Curr Med Chem 11(24)

PubMedID [15579006](#)

Selective inhibition of phosphatidylinositol phospholipase C by cytotoxic ether lipid analogues.

Powis G *et al* (1992) Cancer Res 52(10)

PubMedID [1316230](#)

Edelfosine and perifosine disrupt hepatic mitochondrial oxidative phosphorylation and induce the permeability transition.

Burgeiro A *et al* (2013) Mitochondrion 13(1)

PubMedID [23164800](#)

The antitumor ether lipid edelfosine (ET-18-O-CH₃) induces apoptosis in H-ras transformed human breast epithelial cells: by blocking ERK1/2 and p38 mitogen-activated protein kinases as potential targets.

Na HK *et al* (2008) Asia Pac J Clin Nutr 17 Suppl 1

PubMedID [18296338](#)
