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## DATASHEET

ET-18-OCH3

### Product overview

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

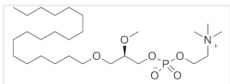
### Biological Data

|                               |   |
|-------------------------------|---|
| <b>Biological description</b> | 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. |
|-------------------------------|---|

### Solubility & Handling

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

### Chemical Data

|                           |   |
|---------------------------|---|
| <b>Chemical name</b>      | Edelfosine; 1-octadecyl-2-O-methyl-glycero-3-phosphocholine                         |
| <b>Molecular Weight</b>   | 523.7   |
| <b>Chemical structure</b> |  |
| <b>Molecular Formula</b>  | $C_{27}H_{58}NO_6P$   |
| <b>CAS Number</b>         | 77286-66-9  |
| <b>PubChem identifier</b> | 6918215   |
| <b>SMILES</b>             | <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-CH<sub>3</sub>) 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](#)

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