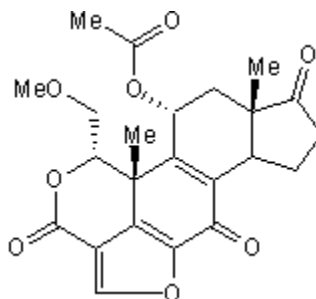


Wortmannin

Cat. No. 1232



Alternative Name: SL-2052

Chemical Name: (1*S*,6*bR*,9*aS*,11*R*,11*bR*) 11-(Acetyloxy)-1,6*b*,7,8,9*a*,10,11,11*b*-octahydro-1-(methoxymethyl)-9*a*,11*b*-dimethyl-3*H*-furo[4,3,2-*de*]indeno[4,5-*h*]-2-*h*]-2-benzopyran-3,6,9-trione

Biological Activity

Potent, selective, cell-permeable and irreversible inhibitor of phosphatidylinositol 3-kinase (PI 3-kinase) ($IC_{50} = 2 - 4$ nM). Also potently inhibits polo-like kinase 1 (PLK1) ($IC_{50} = 5.8$ nM).

Technical Data

M.Wt:

428.44

Formula:

$C_{23}H_{24}O_8$

Solubility:

Soluble to 50 mM in DMSO and to 5 mM in ethanol

Storage:

Desiccate at $-20^{\circ}C$

CAS No:

19545-26-7

The technical data provided above is for guidance only.

For batch specific data refer to the Certificate of Analysis.

References

Arcaro and Wymann (1993) Wortmannin is a potent phosphatidylinositol 3-kinase inhibitor: the role of phosphatidylinositol 3,4,5-trisphosphate in neutrophil responses. *Biochem.J.* **296** 297. PMID: [8257416](#).

Powis et al (1994) Wortmannin, a potent and selective inhibitor of phosphatidylinositol-3-kinase. *Cancer Res.* **54**2419. PMID: [8162590](#).

Schultz et al (1995) *In vitro* and *in vivo* antitumor activity of the phosphatidylinositol-3-kinase inhibitor wortmannin. *Anticancer Res.* **15** 1135. PMID: [7653991](#).

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Liu et al (2005) Wortmannin, a widely used phosphoinositide 3-kinase inhibitor, also potently inhibits mammalian polo-like kinase.
Chem.Biol. **12** 99. PMID: [15664519](#).

If you know of a relevant citation for this product [please let us know](#).

Keywords: Wortmannin, supplier, Potent, inhibitors, PLK1, PI, 3-kinase, irreversible, Polo-like, Kinases, PI3K, Mitosis,
Phosphoinositide, SL2052

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