



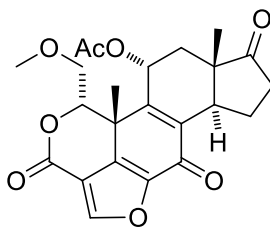
Catalog # 10-2115

Wortmannin

CAS# 19545-26-7

Fermentation product

Lot # X102120



Potent and selective inhibitor of PI3-kinase which acts via covalent modification of Lys-802². Inhibits autophagy in rat hepatocytes³. Inhibits adipocyte differentiation of 3T3-L1 cells⁴. A useful tool for probing PI3-K-mediated cellular events⁵.

- 1) Holleran *et al.* (2003), *Use of high-performance liquid chromatography to characterize the rapid decomposition of wortmannin in tissue culture media*; Anal. Biochem., **323** 19
- 2) Wymann *et al.* (1996), *Wortmannin inactivates phosphoinositide 3-kinase by covalent modification of Lys-802, a residue involved in the phosphate transfer reaction*; Mol. Cell. Biol., **16** 1722
- 3) Blommaart *et al.* (1997), *The phosphatidylinositol 3-kinase inhibitors wortmannin and LY294002 inhibit autophagy in isolated rat hepatocytes*; Eur. J. Biochem., **243** 240
- 4) Tomiyama *et al.* (1995), *Wortmannin, a specific phosphatidylinositol 3-kinase inhibitor, inhibits adipocytic differentiation of 3T3-L1 cells*; Biochem. Biophys. Res. Commun., **212** 263
- 5) Ui *et al.* (1995), *Wortmannin as a unique probe from an intracellular signaling protein, phosphoinositide 3-kinase*; Trends Biochem. Sci., **20** 303

PHYSICAL DATA

Molecular Weight:	428.44
Molecular Formula:	C ₂₃ H ₂₄ O ₈
Purity:	98% by TLC
	NMR: (Conforms)
Solubility:	DMSO (up to 50 mg/ml) or Ethanol (up to 25 mg/ml)
Physical Description:	White or off-white solid
Storage and Stability:	Store as supplied at -20°C for up to 1 year from the date of purchase. Solutions are not stable and should be used within one working day. Wortmannin decomposes relatively quickly in tissue culture media ¹ .

Materials provided by Focus Biomolecules are for laboratory research use only and are not intended for human or veterinary applications.