

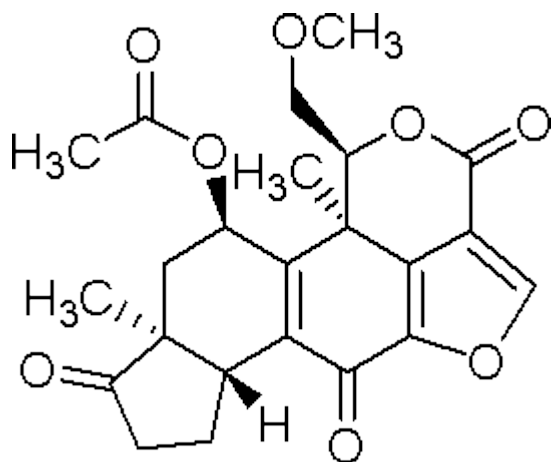
Cat No. 49-U91

Wortmannin

1 mg

Wortmannin is a potent and specific phosphatidylinositol 3-kinase (P13K) inhibitor. Inhibitor of the P13K/Akt signal transduction cascade enhances the apoptotic effects of radiation or serum withdrawal and blocks the antiapoptotic effect of cytokines. Wortmannin has been shown to block many of the short-term metabolic effects induced by insulin receptor activation by the inhibition of P13K.

TECHNICAL INFORMATION



Other Names: (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, SL-2052

Chemical Formula: C₂₃H₂₄O₈

CAS Number: 19545-26-7

Molecular Weight: 428.44

Purity: >98%

Appearance: solid powder

Solubility: DMSO



For research purposes only

STORAGE AND HANDLING

Storage: Store at 4°C and protected from light. Following reconstitution, store aliquots at -20°C.

Stability: Stock solutions stable at -20°C for up to 2 years.

Shipping Conditions: Shipped at room temperature.

PRODUCT USE

Soluble in DMSO to 10 mM. Note: for most cells, the maximum tolerance to DMSO is <0.5%. If a precipitate is observed, vortex for 5 minutes.

REFERENCES

1. Liu et al. (2005) Wortmannin, a widely used phosphoinositide 3-kinase inhibitor, also potently inhibits mammalian polo-like kinase. *Chem Biol.* 12 (1):99-107.
2. Liu et al. (2007) Polo-like kinases inhibited by wortmannin. Labeling site and downstream effects. *J Biol Chem.* 282(4):2505-11.