Store at -20C

## Wortmannin



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1 mg

For Research Use Only. Not for Use in Diagnostic Procedures.

**Background** Wortmannin is a very potent, specific and direct inhibitor of PI3 kinase, originally derived from fungus

(1,2). The inhibition is irreversible and noncompetitive. Wortmannin does not inhibit PI4 kinase, protein

kinase C or protein tyrosine kinase (3).

**Molecular Formula** C<sub>23</sub>H<sub>24</sub>O<sub>8</sub>

Molecular Weight 428.43 g/mol

Purity >99%

CAS 19545-26-7

**Solubility** Soluble in DMSO at 50mg/ml and EtOH at 25mg/ml.

**Storage** Store lyophilized or in solution at -20°C, desiccated. Protect from light. In lyophilized form, the chemical

is stable for 24 months. Once in solution, use within 3 months to prevent loss of potency. Aliquot to

avoid multiple freeze/thaw cycles.

Directions for Use For 2 mM stock, dissolve 1 mg in 1.16 ml DMSO. For experiments with cultured cells, CST recommends treating with wortmannin at concentrations between 0.2 μM and 1 μM, for one hour prior to, and for

the duration of, the stimulation. See MSDS for further information.

**Precautions:** This compound is only sold for use in extremely dilute solutions for biological research. No other use is intended and any other use involves substantial hazards. This compound should never be handled in powder or aerosol form or in any other form susceptible to uncontrolled release in the

laboratory, even in very small quantities.

**Background References** 1. Nakanishi, S. et al. (1992) *J. Biol. Chem.* 267, 2157-2163.

2. Arcaro, A. and Wymann, M.P. (1993) Biochem. J. 296, 297-301.

3. Powis, G. et al. (1994) Cancer Res. 54, 5241-5248.

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