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 C₂₃H₂₄O₈

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 μ M and 1 μ M, 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.

Cross-Reactivity Key

H: human M: mouse R: rat Hm: hamster Mk: monkey Vir: virus Mi: mink C: chicken Dm: D. melanogaster

X: Xenopus Z: zebrafish B: bovine Dg: dog Pg: pig Sc: S. cerevisiae Ce: C. elegans Hr: horse

GP: Guinea Pig Rab: rabbit All: all species expected

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