Revision 1

Store at -20C

#9951

Wortmannin

1 mg

Cell Signaling TECHNOLOGY®

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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

$C_{23}H_{24}O_8$

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 -20ºC, 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.

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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